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AN EPIDEMIOLOGICAL STUDY OF AN ENDEMIC FOCUS OF LEPROSY.

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Having learned of the prevalence of leprosy in the area under consideration to a degree unusual in the United States, it appeared advisable that all available data pertaining thereto should be secured and made a matter of record. This study was therefore undertaken in an unofficial capacity, a circumstance which possibly has not aided in the collection of information. For reasons that are obvious, an epidemiological investigation of a chronic disease of long duration, such as leprosy, is a much more difficult matter than the collection of similar data for an acute infection. The records of the health department are very meager, and relate only to the reports of cases within recent years. So far as possible, our information was secured from the patient himself, and where the patient himself was not available, for one reason or another, we are largely indebted to the practicing physicians of the city for our information. To them are due our hearty thanks.

THE ENDEMIC AREA.

The endemic area is a moderate-sized subtropical city, located at the eastern end of a long, narrow island in the Gulf of Mexico, 2 or more miles distant from the mainland. Industrially the city is a seaport of considerable importance, while manufacturing is of relatively minor importance. Demographically the city differs from most southern cities in the rather small proportion of Negroes and in the large proportion of foreign-born whites, or native whites of foreign-born parentage, composing the population.

THE KNOWN INCIDENCE OF LEPROSY.

The site of the city has been settled about 100 years, but the information that we have been able to collect regarding the incidence of leprosy does not cover a period of over 30 years. This is not to be taken as a suggestion that leprosy was unknown prior to that time, but is due to the absence of any official data regarding its early occurrence.

The earliest case of leprosy of which we have been able to learn was recognized in 1886, and shortly thereafter permanently left the area.

It was apparently of local origin and is not included in our series. In 1889 Dock (1) reported two cases of local origin, which are included in our series. In a personal communication Dock states that he made at the time a "pretty thorough survey of the Mexican and Chinese quarters, but did not find any other cases." Only one Chinese case of leprosy has ever been known there, and of our series only two are Mexican. In addition to the 45 cases of our series we have learned of 25 additional cases of leprosy that have existed in this focus; but owing to the lapse of years and the absence of recorded data, we have been unable to secure many particulars and have, accordingly, omitted these cases.

Our series of 45 cases occurred during the past 30 years. We have divided these cases into three groups, as follows:

Class A: Living cases at present residing in the area (26);
Class B: Cases presumably alive, but who have removed from the area (6); and
Class C: Cases known to be dead (13).

We were able to secure the most detailed and complete information concerning the cases of class A. From an analysis of the data we have collected we present the following tables of summarization:

TABLE I.—*Summarization of cases by origin and class.*

Origin.	Class A.	Class B.	Class C.	Total.
Imported	3	2	0	5
Local cases	23	1	12	36
Unknown origin	0	3	1	4

The imported cases will be omitted from many of the subsequent tables. Where such is the case, it will be indicated in the table heading by including the number (40).

TABLE II.—*Racial incidence of cases (40).*

Race.	Class A.	Class B.	Class C.	Total.
Whites of—				
(a) Native-born parentage	[1] 6	1	2	9
(b) Foreign-born or mixed parentage	[2] 11	0	5	16
(c) Foreign born	[3] 1	0	3	4
Negro	[4] 5	0	2	7
Other races	0	0	0	0
Unknown	0	3	1	4

[1] 25 per cent of class A. [2] 48 per cent of class A. [3] 4 per cent of class A. [4] 22 per cent of class A.

TABLE III.—*Sex incidence of cases (40).*

Sex.	Class A.	Class B.	Class C.	Total.
Male	13	2	10	25
Female	10	2	3	15

TABLE IV.—*Age at onset of cases (40).*

Age (years).	Class A.	Class B.	Class C.	Total.
1 to 10	1	1	0	2
11 to 20	8	0	2	10
21 to 30	2	0	0	2
31 to 40	5	0	3	8
41 to 50	2	1	0	3
51 to 60	3	0	2	5
Over 61	0	0	2	2
Age unknown	2	2	4	8

TABLE V.—*Time of residence in focus before onset (40).*

Number of years.	Class A.	Class B.	Class C.	Total.
1 to 5	2	0	1	3
6 to 10	1	0	0	1
11 to 15	8	0	2	10
16 to 20	5	1	4	10
21 to 30	2	0	0	2
31 to 40	2	0	0	2
41 to 50	0	0	1	1
51 and more	1	0	1	2
Length of residence not known	2	3	4	9

From Table IV it would appear that especial susceptibility is not observed at any particular age period. In order to ascertain if length of residence within this area rather than age was an influencing factor in determining the onset, we divided our cases into two groups, according to their birthplace. The first group comprises those born within this area and the second group those born elsewhere. The individuals comprised within each of these groups were then separately classified according to length of residence and age at onset. These data are presented in Table VI. As would be expected, there is a close correlation between the length of residence and the date of onset among those born locally, the maximum correlation occurring during the second decade of life and residence. On the other hand, among those born elsewhere this correlation is not found. It is to be noted, however, that the maximum number of onsets in this group have occurred during the second decade of residence, whereas the ages of onset are among the later periods of life. It therefore appears proper to conclude that length of residence within this area rather than age is a determining factor in influencing the onset.

TABLE VI.—*Relation of age and residence to onset (40).*

Age (years).	Cases born in area.		Cases born elsewhere.	
	Length of residence.	Age at onset.	Length of residence.	Age at onset.
1 to 10	2	1	2	1
11 to 20	9	9	11	1
21 to 30	1	2	1	0
31 to 40	2	2	0	6
41 to 50	0	0	1	3
51 and over	1	1	1	6
Unknown	3	3	6	5

NOTE.—Apparent discrepancies in first and second columns are due to cases which moved away and later returned.

The patients are, or were at the time of the investigation, engaged in the following occupations:

TABLE VII.—*Occupations of patients (45).*

Occupation.	Class A.	Class B.	Class C.	Total.
Real estate agent	0	0	1	1
School child	2	0	0	2
Locomotive engineer	1	0	0	1
Laborer	10	0	4	14
Retired tailor	1	0	0	1
Delivery boy	1	0	0	1
Laundry worker	0	0	1	1
Housework	7	1	1	9
Seamstress	1	0	0	1
Sailor	0	1	0	1
Cashier	1	0	0	1
At home	1	0	0	1
Fireman	1	0	0	1
Stenographer	0	1	0	1
Harness maker	0	0	1	1
Hospital orderly	0	1	0	1
Not known	0	2	5	7

Multiple or single cases have occurred as follows:

TABLE VIII.—*Number of cases in invaded households (45).*

	Class A.	Class B.	Class C.	Total.
Households with 1 case	19	6	7	32
Households with 2 cases	2	0	3	5
Households with 3 cases	1	0	0	1
Family with 4 cases (included above)	1	0	0	1

Clinically, these cases may be grouped as follows:

TABLE IX.—*Frequency of different clinical types (45).*

Type.	Class A.	Class B.	Class C.	Total.
Tuberculous	11	2	4	17
Anesthetic	5	1	0	6
Mixed	10	2	9	21
Not known	0	1	0	1
Ulcerative (included in mixed)	1	0	0	1

The duration of these cases has been as follows:

TABLE X.—*Duration of illness in cases (45).*

Duration.	Class A.	Class B.	Class C.	Total.
Less than 1 year	2	0	0	2
From 1 to 2 years	2	0	1	3
From 1 to 3 years	5	0	0	5
From 1 to 4 years	3	0	2	5
From 1 to 5 years	3	0	1	4
From 1 to 6 years	1	0	0	1
From 1 to 7 years	3	0	1	4
From 1 to 8 years	2	0	1	3
From 1 to 9 years	0	2	0	2
From 1 to 10 years	2	0	0	2
From 1 to 15 years	2	0	0	2
From 1 to 17 years	0	0	1	1
From 1 to 24 years	0	0	1	1
Not known	1	4	5	10

In considering the data presented in this series of tables, the following facts stand out:

(1) The majority of known lepers within this city have acquired infection locally.

(2) A comparison of the racial incidence of cases with the current distribution of the population is, at the time of this writing, impossible, since the results of the 1920 census are not yet available. Furthermore, an accurate estimate for 1920 can not be made. Accordingly, we shall have to employ the 1910 population composition.

TABLE XI.—*Racial incidence of leprosy compared with racial composition of the population.*

Race.	Per cent of living lepers, 1920.	Per cent of population in 1910.
White:		
Native-born parentage	26	34.2
Native born of foreign or mixed parentage	48	27.3
Foreign born	4	16.7
Negro	22	21.7

Thus, it is apparent that cases have occurred among whites and Negroes only in proportion to their distribution in the population of this area. On the other hand, it is to be noted that the cases are more numerous among those whites of foreign-born parentage than among native-born whites. The incidence among those of German parentage seems to be proportionately higher than among those of other descent. Thus, in 1910 the native-born whites of foreign-born German parents were 2,365, or 6 per cent of the total population, whereas 35 per cent of the present cases are among their number. The significance of this is not clear. It may indicate greater susceptibility among those of German ancestry or the strain of leprosy prevalent here may be of Teutonic origin.

(3) There were 25 male and 15 female lepers.

(4) Only one of the cases developed the disease before the age of 10; yet the second decade of life contains the onsets of a larger number of cases than any subsequent age periods, none of which is exempt.

(5) For the most part infection appears to develop only after a protracted residence in this area. Only two cases are known to have developed the disease under five years of residence. Most of the cases have appeared following a period of residence of from 11 to 20 years. It appears that the length of residence is a more important factor in determining the age of onset than is the age itself.

(6) Among males the greatest incidence is among laborers. The occupational incidence among females is not suggestive. In general, the occupational incidence coincides with the social status of the cases—that is, cases are most prevalent among those in the humbler walks of life.

(7) The disease in this focus tends to run a chronic course, characteristic of its occurrence elsewhere. The tuberculous type is more common than the anesthetic, and the mixed is more frequent than either of the others. Only one of the present cases has any ulcerations.

ANNUAL INCIDENCE.

The annual incidence of leprosy within recent years is shown in the following table:

TABLE XII.—*Annual incidence of leprosy.*

Year.	Population (mid year).	Onset.		Cases reported.	Death rate per 100,000.
		Number.	Rate per 100,000.		
1911	37,851	0	0	1	0
1912	38,597	2	5.2	2	2.6
1913	39,343	2	5.1	2	2.5
1914	40,089	1	2.5	0	2.5
1915	40,835	1	2.4	0	0
1916	41,581	4	9.6	0	4.8
1917	42,327	4	9.4	0	0
1918	43,073	2	4.7	8	0
1919	43,819	1	2.3	3	4.5
1920 [1]	44,565	1	2.2	1	2.2

[1] June 1.

While our information concerning the incidence of leprosy prior to 1910 is meager, and in all probability the majority of cases are unrecorded, yet it is uncertain that the incidence of the disease has increased materially during the last decade. An idea of the recent comparative incidence of leprosy in this focus and other foci of the disease is given in the following table:

TABLE XIII.—*Comparative incidence of leprosy in several foci.*

Locality.	Number of cases known living in focus.	Cases reported during year.
Local focus (1918) (own data)	26	8
State of Texas (1918) [1]	18	0
New York City (1918) [1]	23	2
San Francisco (1918) [1]	19	7
State of Minnesota (1918) [1]	10	2
United States (continental) (1918) [1]	209	63

[1] Data from Annual Report of the Surgeon General, United States Public Health Service, 1919.

From our study we feel confident that there are still a number of unrecognized cases of leprosy living in this focus, yet the foregoing comparison calls attention to the inadequacy of our knowledge of the incidence of the disease in the United States as a whole, particularly when we note the number reported from the entire State of Texas compared with the number known in this focus (which is in Texas) during

the same year. Even considering the notorious inadequacy of our knowledge of the prevalence of leprosy in the United States, it seems possible that the actual incidence of the disease in this focus is greater than in most, if not all other, of those areas in the United States where the disease is known to be endemic.

GEOGRAPHICAL DISTRIBUTION OVER THE ENDEMIC AREA.

The city under consideration is divided into 13 precincts. The density of population in each precinct and the incidence of leprosy therein are shown in Table XIV.

TABLE XIV.—*Density of population and leprosy incidence.*

Precinct.	Population, 1910.	Density per acre.	Leper population, 1920.	Lepers originating in each area.	Cases of German descent.
1	2,943	22	1	6	3
2	2,810	31	1	2	0
3	2,425	23	1	1	0
4	2,505	24	3	1	2
5	3,228	31	0	1	0
6	4,553	6	8	6	4
7	3,960	2	5	7	1
7½	2,615	12	1	2	0
8	2,609	13	0	0	0
9	2,408	12	0	0	0
10	2,515	17	4	6	4
11	2,372	16	0	0	0
12	1,998	19	2	3	0

It is to be noted that in three precincts we have no record of either past or present cases of leprosy originating therein. It is also to be noted that the distribution of these cases is not proportional to the density of population, and that we can further distinguish several well-defined local foci of infection, where a circle with a radius of two or three blocks will circumscribe all the cases in that area. Thus we can note one such focus in the first and second precincts; another in the sixth, one which lies in both the sixth and seventh precincts; one in the tenth precinct, and another in the twelfth precinct. It is also to be noted that the focus in the first and second precinct has very nearly become extinct, the majority of the cases having either died or moved away, while those still remaining are of several years duration. The focus which lies in both the sixth and seventh precinct appears quiescent, for no new cases have been reported within this area for several years. The westerly focus in the sixth precinct, the focus in the tenth, and the focus in the twelfth precincts appear to be active at present and have contributed the cases recognized within the last two years.

Referring to the high incidence of the disease among persons of German birth or descent, and noting the place of their residence, it is found that most of these cases are concentrated in the first, sixth,

and tenth precincts. This suggests that there may have existed a degree of social contact among these cases, despite negative histories of contact given to us in reply to interrogations.

DATA RELATING TO ROUTE OF INFECTION.

We have already stated that of the households in which at present are living cases, 19 have one case; 2 two cases; and 1 three cases. In addition, surveying all of the past or present cases known to us, we were able to secure the following data relative to known association with a case of leprosy prior to the onset.

TABLE XV—*History of contact with lepers prior to onset* (45).

History of contact.	Class A.	Class B.	Class C.	Total.
Known association with a leper at—				
Home	7	0	1	8
Elsewhere	6	1	3	10
Contact not known	10	1	1	12
No data secured	3	4	8	15

In 30 cases we were able to secure definite information upon this point. Eighteen of these, or 60 per cent, gave a history of such association prior to the development of their own illness.

Contact with preexisting cases of leprosy took place under the following circumstances:

Case 5 conducted a rooming and boarding house in which case 30 lived for three months, one year prior to the onset of case 5.

Case 8 went on frequent fishing trips with case 25.

Case 9 slept with case 48 for a period of two months, 10 years prior to her own onset.

Case 10 associated with a leprous brother-in-law and niece in Mexico.

Case 11 is in contact with her mother, case 43, whose illness was diagnosed as pellagra.

Case 12, as a boy, played with cases 37 and 46.

Case 13, contact with mother, case 14.

Case 14, contact with husband, who did not reside in this city.

Case 15, contact with mother, case 11. In this family there are three generations of leprosy cases.

Cases 17 and 18 are two brothers, whose onsets were practically simultaneous. Contact with mother, case 19.

Case 21. A granddaughter of case 19 and a niece of cases 17 and 18. This is a second instance of three generations of leprosy patients in one family.

Case 25 was, as a child, associated with cases 17 and 18.

Case 40 is a brother of case 48.

Case 41 was in contact with his mother, who probably contracted infection while living in Mexico.

Case 46, slept with his older brother, case 37.

It might be possible that the tuberculous and anesthetic types of leprosy are due to separate strains of the bacillus, each having a different selective localization in the body. If this is the case, it might also be possible that the histories of contact would show that the strain breeds true, i. e., tuberculous cases of leprosy give rise to tuberculous cases, providing the known leprous associates were the actual source from whom infection was secured.

Data bearing upon this point are presented in the following table:

TABLE XVI.—*Type of case with whom living cases were in contact (26).*

Living cases giving a history of contact.			Living cases not giving a history of contact.
Clinical type.	Number of cases.	Contact known with—	
1. Tuberculous	4	4 tuberculous lepers	7 cases.
2. Anesthetic	2	1 mixed leper 1 anesthetic leper	3 cases.
3. Mixed	7	3 tuberculous lepers 1 anesthetic leper 1 mixed leper 1, type unknown 1, to both simple types	3 cases.

From these data it would appear that if these cases do owe their origin to contact transmission from cases with whom they are known to have been in contact, the clinical types of leprosy are possibly due to the selective preference of different strains of leprosy for either the subcutaneous or nervous tissues, which strains tend to maintain this behavior on transfer.

In view of the inadequacy of our data to entirely explain the grouping of the cases into several small foci on the basis of contact transfer, it may be worth while to consider other possible means of transfer. The only other routes of transmission, with which we are familiar, that would produce a similar epidemiological picture, are those through insects. (1) From the short radius of these foci it would appear that the assumed insect has a very narrow radius of activity; and (2) from the relatively few cases that develop in a focus, it would seem that the insect is not a very efficient means for the conveyance of the organisms. So far as the local insect fauna is concerned, there are three species that command our attention in this connection, namely, *Musca domestica*, *Aedes calopus* (*Stegomyia fasciata*), and *Cimex lectularius*.

That leprosy bacilli can possibly be conveyed by insects, especially those which suck blood, would appear possible from the following facts:

(1) The leprosy bacilli are present in the subcutaneous tissues of patients at a depth where they could be reached by the proboscis of a blood-sucking insect, or are present in the discharges from ulcerations.

(2) The localization of our cases is suggestive of the activity of known species having a narrow radius of activity. The three species mentioned tend to have such a narrow radius.

Against this view may be advanced the following facts:

(1) The known infections transmitted through the activity of these insects tend to spread more rapidly with a higher incidence than leprosy, even making allowance for the fact that the former are acute infections, while leprosy is chronic.

(2) The known observations upon the presence of leprosy bacilli in insects have given very few positive results. Currie (2) has reviewed the data available upon this point up to 1910 and has submitted some negative data secured by himself regarding mosquitoes. Brinckerhoff (3), Leboeuf (5), and Noc (6) report largely negative observation on mosquitoes, while Thomson (4), Leboeuf (5), and Skelton and Parham (7) report negative results with bedbugs. McCoy and Clegg (8) report positive findings from two head lice captured on a leper. Leboeuf (9) found 19 of 23 house flies fed upon ulcers to be positive, while Honeij and Parker (10) found leprosy bacilli in both the house fly and the stable fly. It is therefore apparent that the idea of insect transmission has little evidence to support it, with the exception of that concerning the house fly. We have previously noted that only one of our present cases is ulcerative. We are therefore forced to conclude that the idea of insect transmission is inadequate to explain the peculiar grouping of our cases.

RAT LEPROSY.

In this connection we made some effort to detect rat leprosy in the course of the examination of some 23,000 rats for plague. Only 7 leprous rats were identified, as proved by the detection of acid-fast bacilli in smears. These were all Norways. In the course of the search, 14,000 Norway rats were examined. These leprous rats were secured from precincts 6, 7, 8, and 9. Special effort to secure additional leprous rats from these areas was made without success.

RELATION OF FISH DIET TO LEPROSY INCIDENCE.

Some years ago considerable attention was drawn to the consumption of fish in relation to the incidence of leprosy. We secured the

following data regarding the consumption of fish from our series of cases:

TABLE XVII.—*Consumption of fish by leprous patients (45).*

Fish frequently eaten	11
Fish occasionally eaten	1
Fish rarely eaten	9
Fish never eaten	2
No data	22

This does not appear to support the view that a fish diet bears any relationship to the development of the disease.

CONCLUSIONS.

From the foregoing data, which we have collected, we draw the following conclusions:

(1) The majority of the known cases of leprosy in this focus have acquired infection locally.

(2) There is apparently a greater incidence of the disease among persons native born of foreign-born German parents than among any other group in the population.

(3) There is a preponderance of cases among males.

(4) More cases have developed during the second decade of life than in any other age period, though no age group appears to be immune.

(5) The length of residence within the area appears to be a more important factor than age in determining the onset. The majority of cases develop the disease during the second decade of residence.

(6) It is uncertain whether the area of incidence of the disease is undergoing any increase.

(7) In proportion to the population of the area, there is probably a higher incidence of leprosy in the area studied than elsewhere in continental United States.

(8) The cases within the area are grouped into several distinct foci.

(9) A major proportion of the cases give a history of contact or association with a case of leprosy prior to the onset of their own infection. Known contact transfer will not explain the origin of all the cases or the peculiar grouping into foci of a small radius.

(10) The hypothesis of insect transmission is inadequate to explain the grouping of the cases. More likely, contact with unrecognized cases or unrecognized contact with known lepers is responsible for the 40 per cent of cases from whom a contact history was unobtainable.

In concluding, we should call attention to the fact that absolutely no official control or supervision in any form has ever been exercised over the cases of leprosy within this area.

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THE NOTIFIABLE DISEASES.

PREVALENCE DURING 1919 IN CITIES OF OVER 100,000.[1]

ANTHRAX, GONORRHEA, INFLUENZA, MALARIA, PNEUMONIA (ALL FORMS), RABIES IN ANIMALS, RABIES IN MAN, SYPHILIS, TUBERCULOSIS (ALL FORMS AND PULMONARY), CEREBROSPINAL MENINGITIS, DIPHTHERIA, MEASLES, PELLAGRA, POLIOMYELITIS (INFANTILE PARALYSIS), SCARLET FEVER, SMALLPOX, AND TYPHOID FEVER—CASES AND DEATHS REPORTED, 1919; INDICATED CASE AND DEATH RATES PER 1,000 POPULATION; FATALITY RATES PER 100 CASES; AND AVERAGE NUMBER OF CASES REPORTED DURING PRECEDING YEARS.

The following tables were compiled from data furnished by the city health officers. They include all cities in the United States of 100,000 population or over, although one city furnished mortality data only.

The populations given and which were used in computing the rates were estimated as of July 1, 1919, from the preliminary reports of the census of January 1, 1920, and the reports of the census of April 15, 1910. The figures given probably differ somewhat from estimates which will be made later, which will be based on the final reports of the 1920 census and will take into consideration changes in area of the cities between 1910 and 1920, data for which are not now available. The differences, however, will probably not be such as to seriously affect the rates given in the tables.

Averages of the total cases reported annually during the years 1914–1918 were made for cerebrospinal meningitis, diphtheria, measles, scarlet fever, smallpox, and typhoid fever by adding the numbers of cases and dividing the sum by the number of years for which data are available. For pellagra the data were available only for the years 1915 to 1918, inclusive. In compiling the data relative

[1] It will be noted that some of the cities are apparently much more successful in obtaining reports of the notifiable diseases than are others. This may be due to the greater activity of their health departments or to a greater interest in the public welfare on the part of their practicing physicians. That the health departments of certain cities are securing fairly complete information of the prevalence of preventable diseases is indicated in a number of instances by the large numbers of cases reported as compared with the numbers of deaths registered from the same causes.

to poliomyelitis (infantile paralysis) the year 1916 was excluded, as during that year a severe epidemic of this disease occurred in many of the cities, and in order to give a five-year average the year 1913 was included for those cities for which the reports were available.

For all diseases except anthrax and rabies there is given either the fatality rate per 100 cases or the number of cases reported for each death.

In comparing the figures for 1919 with the averages for preceding years, it should be borne in mind that there has been a gradual improvement in the reporting of communicable diseases during the last few years. An increase in the number of cases reported may be due to better reporting of the particular disease rather than to an increase in the number of cases existing.

In studying these tables it should be kept in mind that a relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department of that city is active and that the cases of the disease are being well reported by the practicing physicians. It does not usually mean that the disease is more prevalent in that city than in other cities. A high fatality rate may mean that the disease was unusually virulent in a city, that the physicians did not treat the disease in that city with the success usual elsewhere, or that the practicing physicians did not report all of their cases to the health department. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the city was unusually mild, that the physicians treated it with unusual success, that the practicing physicians reported their cases satisfactorily, or that the registration of deaths was incomplete, or the assignment of the causes of death inaccurate.

Cities in which no cases of a certain disease were reported are not included in the table for that disease.

Reported Prevalence for the Year 1919.

ANTHRAX.

City.	Cases reported.	Deaths registered.	City.	Cases reported.	Deaths registered.
Atlanta, Ga	2	.....	Milwaukee, Wis	.....	1
Baltimore, Md	1	0	New York, N. Y	14	9
Boston, Mass	4	0	Philadelphia, Pa	10	4
Camden, N. J.	3	1	Portland, Oreg	1	1
Chicago, Ill	.....	1	Reading, Pa	1	0
Denver, Colo	2	1	San Francisco, Calif	3	0
Des Moines, Iowa	.....	1	Wilmington, Del	3	0
Detroit, Mich	.....	1	Worcester, Mass	1	0
Hartford, Conn	1	1			

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Continued.

GONORRHEA.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Akron, Ohio	201,257	2,222	11.04	0		
Atlanta, Ga	198,258	585	2.95	1	0.005	585.0
Baltimore, Md	724,796	175	.24	24	.033	7.3
Birmingham, Ala	175,922	1,838	10.45	1	.006	1,838.0
Boston, Mass	744,070	811	1.09	0		
Bridgeport, Conn	141,401	211	1.49			
Buffalo, N. Y	502,497	760	1.51	1	.002	760.0
Camden, N. J.[1]	115,188	8	.07			
Chicago, Ill	2,675,108	6,696	2.50	12	.004	558.0
Cleveland, Ohio	784,673	242	.31	11	.014	22.0
Columbus, Ohio	234,172	2	.01	0		
Dallas, Tex	155,532	1,073	6.90	3	.019	357.7
Denver, Colo	254,271	1,767	6.95	0		
Des Moines, Iowa	124,403			3	.024	
Detroit, Mich	966,547	2,363	2.44	16	.017	147.7
Fall River, Mass	120,424	10	.08			
Fort Worth, Tex	104,774	316	3.02	1	.010	316.0
Hartford, Conn	136,021	127	.93	1	.007	127.0
Houston, Tex	135,023	696	5.15	0		
Kansas City, Mo	329,494	89	.28	0		
Los Angeles, Calif	563,412	1,271	2.26			
Louisville, Ky	234,326	40	.17	2	.009	20.0
Memphis, Tenn	160,742	254	1.58	0		
Minneapolis, Minn	376,504	9	.02	4	.011	2.3
Newark, N. J	410,778	1,000	2.43	2	.005	500.0
New Haven, Conn	161,030	360	2.24	0		
New Orleans, La	384,739	2,326	6.05	3	.008	775.3
New York, N. Y	5,577,154			36	.006	
Oakland, Calif	212,952	248	1.16	0		
Paterson, N. J	135,337	170	1.26	0		
Philadelphia, Pa	1,809,039	1,681	.93	10	.006	168.1
Pittsburgh, Pa	585,397			2	.003	
Portland, Oreg	255,658	826	3.23	1	.004	826.0
Providence, R. I	236,912			1	.004	
Richmond, Va	169,399	350	2.07	2	.012	175.0
St. Louis, Mo	768,475	1,210	1.57	3	.004	403.3
St. Paul, Minn	233,573	126	.54	1	.004	126.0
Salt Lake City, Utah	116,805			2	.017	
San Francisco, Calif	502,053	971	1.93	2	.004	485.5
Seattle, Wash	311,611	566	1.82	0		
Spokane, Wash	104,435	804	7.70	2	.019	402.0
Toledo, Ohio	239,266	54	.23	7	.029	7.7
Yonkers, N. Y	99,127	36	.36	1	.010	36.0
Youngstown, Ohio	129,613	6	.05	0		

INFLUENZA.

Akron, Ohio	201,257	453	2.25	286	1.42	1.6
Albany, N. Y	112,670	2,341	20.78	129	1.14	18.1
Atlanta, Ga	198,258	1,296	6.54	93	.47	13.9
Baltimore, Md	724,796	5,669	7.82	406	.56	14.0
Birmingham, Ala	175,922			273	1.55	
Boston, Mass	744,070	8,463	11.37	897	1.21	9.4
Bridgeport, Conn	141,401	490	3.47	161	1.14	3.0
Buffalo, N. Y	502,497	5,226	10.40	426	.85	12.3
Cambridge, Mass	109,444	1,260	11.51	71	.65	17.7
Camden, N. J.[1]	115,188	577	5.01			
Chicago, Ill	2,675,108	9,237	3.45	1,834	.69	5.0
Cincinnati, Ohio	399,308			645	1.62	
Cleveland, Ohio	784,673	4,467	5.69	941	1.20	4.7
Columbus, Ohio	234,172			231	.99	
Dallas, Tex	155,532	768	4.94	142	.91	5.4
Dayton, Ohio	150,706			118	.78	
Denver, Colo	254,271	416	1.64	57	.22	7.3
Des Moines, Iowa	124,403			114	.92	
Detroit, Mich	966,547	2,404	2.49	792	.82	3.0
Fall River, Mass	120,424	1,300	10.80	126	1.05	10.3
Fort Worth, Tex	104,774	27		27	.26	
Grand Rapids, Mich	136,343	295	2.16	11	.08	26.9
Hartford, Conn	136,021	432	3.18	159	1.17	2.7
Houston, Tex	135,023			69	.51	
Indianapolis, Ind	310,046	360	1.16	265	.85	1.4

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Continued.

INFLUENZA—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Jersey City, N. J	296,518	605	2.04	304	1.03	2.0
Kansas City, Kans	100,206	632	6.31	38	.38	16.6
Kansas City, Mo	320,494	1,317	4.11	372	1.16	3.5
Los Angeles, Calif	563,412	14,932	26.50	725	1.29	20.6
Louisville, Ky	234,326	2,560	10.92	65	.28	39.4
Lowell, Mass	112,426	1,004	8.93	27	.24	37.2
Memphis, Tenn	160,742	755	4.70	79	.49	9.6
Milwaukee, Wis	452,857	1,267	2.80	82	.18	15.5
Minneapolis, Minn	376,504			368	.98	
Nashville, Tenn	117,931			199	1.69	
Newark, N. J	410,778	4,188	10.20	267	.65	15.7
New Bedford, Mass	119,952			3	.03	
New Haven, Conn	161,030	635	3.94	139	.86	4.6
New Orleans, La	384,739	7,283	18.93	699	1.82	10.4
New York, N. Y	5,577,154	25,218	4.52	4,830	.87	5.2
Norfolk, Va	113,288	160	1.41	47	.41	3.4
Oakland, Calif	212,952	2,733	12.83	338	1.59	8.1
Omaha, Nebr	188,124	306	1.63	32	.17	9.6
Paterson, N. J	135,337	1,191	8.80	73	.54	16.3
Philadelphia, Pa	1,809,039	4,416	2.44	992	.55	4.5
Pittsburgh, Pa	585,397	4,769	8.15	806	1.38	5.9
Portland, Oreg	255,658	5,762	22.54	452	1.77	12.7
Providence, R. I	236,912	5,638	23.80	269	1.14	21.0
Reading, Pa	107,181			32	.30	
Richmond, Va	169,390			200	1.18	
Rochester, N. Y	291,753	712	2.44	161	.55	4.4
St. Louis, Mo	768,475	3,414	4.44	406	.53	8.4
St. Paul, Minn	233,573	737	3.16	163	.70	4.5
Salt Lake City, Utah	116,805	4,045	34.63	177	1.52	22.9
San Antonio, Tex	158,043	850	5.38	27	.17	31.5
San Francisco, Calif	502,053	21,079	41.99	952	1.90	22.1
Scranton, Pa	137,375			94	.68	
Seattle, Wash	311,611	464	1.49	368	1.18	1.3
Spokane, Wash	104,435	2,164	20.72	143	1.37	15.1
Springfield, Mass	127,470	776	6.09	120	.94	6.5
Syracuse, N. Y	169,942			59	.35	
Trenton, N. J	118,132	799	6.76	76	.64	10.5
Washington, D. C	432,086	4,275	9.89	388	.90	11.0
Wilmington, Del	108,996			43	.39	
Worcester, Mass	178,015	1,304	7.33	179	1.01	7.3
Yonkers, N. Y	99,127	478	4.82	46	.46	10.4
Youngstown, Ohio	129,613	2,194	16.93	250	1.93	8.8

MALARIA.

Akron, Ohio	201,257	2	0.010	1	0.005	2.0
Atlanta, Ga	198,258	21	.106	2	.010	10.5
Baltimore, Md	724,796	13	.018	3	.004	4.3
Birmingham, Ala	175,922	30	.171	12	.068	2.5
Boston, Mass	744,070	10	.013	0		
Camden, N. J.[1]	115,188	2	.017			
Chicago, Ill	2,675,108			8	.003	
Columbus, Ohio	234,172			1	.004	
Dallas, Tex	155,532	311	2.000	12	.077	25.9
Dayton, Ohio	150,706	3	.020	0		
Detroit, Mich	966,547			2	.002	
Fall River, Mass	120,424	1	.008	0		
Fort Worth, Tex	104,774	3		3	.029	1.0
Houston, Tex	135,023			20	.148	
Jersey City, N. J	296,518	3	.010	0		
Kansas City, Kans	100,206	5	.050	1	.010	5.0
Kansas City, Mo	320,494	1		2	.006	
Los Angeles, Calif	563,412	19	.034			
Louisville, Ky	234,326	15	.064	0		
Lowell, Mass	112,426	1		1	.009	
Memphis, Tenn	160,742	26		34	.212	
Milwaukee, Wis	452,857			1	.002	
Minneapolis, Minn	376,504	2	.005	1	.003	2.0
Nashville, Tenn	117,931			5	.042	
Newark, N. J	410,778	24	.058	0		
New Orleans, La	384,739	27	.070	18	.047	1.5
New York, N. Y	5,577,154	50	.009	9	.002	5.6

[1] Fiscal year, Dec. 15, 1918, to Dec 15, 1919.

Reported Prevalence for the Year 1919—Continued.

MALARIA—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Paterson, N. J	135,337	10	0.074	0		
Philadelphia, Pa	1,809,039	6	.003	2	0.001	3.0
Pittsburgh, Pa	585,397	1	.002	0		
Richmond, Va	169,399	19	.112	1	.006	19.0
Rochester, N. Y	291,753			1	.003	
St. Louis, Mo	768,475			6	.008	
San Antonio, Tex	158,043	6		6	.038	1.0
San Francisco, Calif	502,053	7	.014	3	.006	2.3
Springfield, Mass	127,470	1	.008	0		
Toledo, Ohio	239,236	3	.013	1	.004	3.0
Trenton, N. J	118,132	6	.051	1	.008	6.0

PNEUMONIA (ALL FORMS).

Akron, Ohio	201,257	105		295	1.47	
Albany, N. Y	112,670	424	3.76	170	1.51	2.5
Atlanta, Ga	198,258	60		547	2.76	
Baltimore, Md	724,796	1,915	2.64	1,316	1.82	1.5
Birmingham, Ala	175,922			330	1.88	
Boston, Mass	744,070	1,609	2.16	955	1.28	1.7
Bridgeport, Conn	141,401	11		254	1.80	
Buffalo, N. Y	502,497	711	1.41	640	1.27	1.1
Cambridge, Mass	109,444	[2] 164	1.50	[3] 135	1.23	
Camden, N. J.[1]	115,188	238	2.07			
Chicago, Ill	2,675,108	10,820	4.04	3,340	1.25	3.2
Cincinnati, Ohio	399,308			356	.89	
Cleveland, Ohio	784,673	1,274	1.62	1,190	1.52	1.1
Columbus, Ohio	234,172	277		277	1.18	
Dallas, Tex	155,532	148	.95	141	.91	1.0
Dayton, Ohio	150,706	19		152	1.01	
Denver, Colo	254,271			566	2.23	
Des Moines, Iowa	124,403			187	1.50	
Detroit, Mich	966,547	724		1,595	1.65	
Fall River, Mass	120,424	135		151	1.25	
Fort Worth, Tex	104,774	179		179	1.71	
Grand Rapids, Mich	136,343	258	1.89	118	.87	2.2
Hartford, Conn	136,021	26		245	1.80	
Houston, Tex	135,023			230	1.70	
Indianapolis, Ind	310,046			473	1.53	
Jersey City, N. J	296,518	191		678	2.29	
Kansas City, Kans	100,206	189		213	2.13	
Kansas City, Mo	320,494	524		656	2.05	
Los Angeles, Calif	563,412	1,056	1.87	364	.65	2.9
Louisville, Ky	234,326	432		732	3.12	
Lowell, Mass	112,426	101		214	1.90	
Memphis, Tenn	160,742			401	2.49	
Milwaukee, Wis	452,857			749	1.65	
Minneapolis, Minn	376,504			276	.73	
Nashville, Tenn	117,931			182	1.54	
Newark, N. J	410,778	2,889	7.03	645	1.57	4.5
New Bedford, Mass	119,952	52		297	2.48	
New Haven, Conn	161,030			232	1.44	
New Orleans, La	384,739			647	1.68	
New York, N. Y	5,577,154	10,379		10,978	1.97	
Norfolk, Va	113,288			291	2.57	
Oakland, Calif	212,952	39		211	.99	
Omaha, Nebr	188,124			335	1.78	
Paterson, N. J	135,337	984	7.27	247	1.83	4.0
Philadelphia, Pa	1,809,039	4,116	2.28	3,234	1.79	1.3
Pittsburgh, Pa	585,397	[2] 995		[3] 1,933	3.30	
Portland, Oreg	255,658			216	.84	
Providence, R. I	236,912			330	1.39	
Reading, Pa	107,181	14		157	1.46	
Richmond, Va	169,399	13		263	1.55	
Rochester, N. Y	291,753	433	1.48	299	1.02	1.4
St. Louis, Mo	768,475			1,334	1.74	
St. Paul, Minn	233,573			197	.84	
Salt Lake City, Utah	116,805	6		133	1.14	
San Antonio, Tex	158,043	139		234	1.48	
San Francisco, Calif	502,053	[2] 556		[3] 628	1.25	

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.
[2] Includes lobar pneumonia only.
[3] Includes pneumonia (all forms).

Reported Prevalence for the Year 1919—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Scranton, Pa	137,375			227	1.65	
Seattle, Wash	311,611			252	.81	
Spokane, Wash	104,435	197	1.89	89	.85	2.2
Springfield, Mass	127,470	[1] 247	1.94	[2] 154	1.21	
Syracuse, N. Y	169,942	11		197	1.16	
Toledo, Ohio	239,266	23		240	1.00	
Trenton, N. J	118,132	285	2.41	173	1.46	1.6
Washington, D. C	432,086			635	1.47	
Wilmington, Del	108,996			245	2.25	
Worcester, Mass	178,015	236		277	1.56	
Yonkers, N. Y	99,127	171	1.73	152	1.53	1.1
Youngstown, Ohio	129,613			241	1.86	

RABIES IN ANIMALS.

City.	Cases reported.	City.	Cases reported.
Akron, Ohio	20	Milwaukee, Wis	1
Cleveland, Ohio	148	Minneapolis, Minn	6
Dallas, Tex	5	Newark, N. J	4
Dayton, Ohio	17	Norfolk, Va	3
Denver, Colo	2	Providence, R. I	1
Detroit, Mich	17	Rochester, N. Y	34
Fall River, Mass	5	San Francisco, Calif	1
Jersey City, N. J	2	Toledo, Ohio	7
Kansas City, Mo	59	Washington, D. C	16
Louisville, Ky	12	Yonkers, N. Y	2

RABIES IN MAN.

City.	Cases reported.	Deaths registered.	City.	Cases reported.	Deaths registered.
Akron, Ohio	1	1	New York, N. Y	5	5
Baltimore, Md		1	Philadelphia, Pa	2	2
Chicago, Ill	1	1	Pittsburgh, Pa	1	1
Cleveland, Ohio	2	2	Rochester, N. Y	1	1
Denver, Colo	1	1	St. Louis, Mo		2
Fall River, Mass	1	1	Salt Lake City, Utah		1
Houston, Tex	1	1	Seattle, Wash		1
Kansas City, Mo	1	2	Youngstown, Ohio	1	1
New Orleans, La		2			

SYPHILIS.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Akron, Ohio	201,257	897	4.46	8	0.04	112.1
Atlanta, Ga	198,258	176	.89	14	.07	12.6
Baltimore, Md	724,796	951	1.31	151	.21	6.3
Birmingham, Ala	175,922	1,619	9.20	69	.39	23.5
Boston, Mass	744,070	181	.24	94	.13	1.9
Bridgeport, Conn	141,401	184	1.30	12	.08	15.3
Buffalo, N. Y	502,497	1,421	2.83	50	.10	28.4
Camden, N. J.[3]	115,188	2	.02			

[1] Includes lobar pneumonia only. [2] Includes pneumonia (all forms).
[3] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Continued.

SYPHILIS—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Chicago, Ill.	2,675,108	3,812	1.42	211	0.08	18.1
Cleveland, Ohio	784,673	626	.80	139	.18	4.5
Columbus, Ohio	234,172			25	.11	
Dallas, Tex	155,532	435	2.80	31	.20	14.0
Dayton, Ohio	150,706			14	.09	
Denver, Colo	254,271	418	1.64	21	.08	19.9
Des Moines, Iowa	124,403			3	.02	
Detroit, Mich	966,547	1,852	1.92	138	.14	13.4
Fall River, Mass	120,424	8		12	.10	
Fort Worth, Tex	104,774	178	1.70			
Hartford, Conn	136,021			7	.05	
Houston, Tex	135,623	565	4.18	10	.07	56.5
Kansas City, Kans	100,206			3	.03	
Kansas City, Mo	320,494	26		56	.17	
Los Angeles, Calif	563,412	1,361	2.42	47	.08	29.0
Louisville, Ky	234,326	10	.04	6	.03	1.7
Memphis, Tenn	160,742	189	1.18	19	.12	9.9
Milwaukee, Wis	452,857			5	.01	
Minneapolis, Minn	376,504			47	.12	
Newark, N. J	410,778	571	1.39	40	.10	14.3
New Bedford, Mass	119,952			2	.02	
New Haven, Conn	161,030	347	2.15	0		
New Orleans, La	384,739	1,603	4.17	87	.23	18.4
New York, N. Y	5,577,154			476	.09	
Oakland, Calif	212,952	91	.43	6	.03	15.2
Omaha, Nebr	188,124			12	.06	
Paterson, N. J	135,337	279	2.06	6	.04	46.5
Philadelphia, Pa	1,809,039	1,889	1.04	304	.17	6.2
Pittsburgh, Pa	585,397			84	.14	
Portland, Oreg	255,658	187	.73	13	.05	14.4
Providence, R. I	236,912			23	.10	
Richmond, Va	169,399	578	3.41	35	.21	16.5
St. Louis, Mo	768,475	741	.96	73	.09	10.2
St. Paul, Minn	233,573	54	.23	16	.07	3.4
Salt Lake City, Utah	116,805			16	.14	
San Antonio, Tex	158,043			9	.06	
San Francisco, Calif	502,053	1,076	2.14	81	.16	13.3
Seattle, Wash	311,611	271	.87	39	.13	6.9
Spokane, Wash	104,435	128	1.23	14	.13	9.1
Springfield, Mass	127,470			5	.04	
Syracuse, N. Y	169,942	644	3.79	13	.08	49.5
Toledo, Ohio	239,266	33		45	.19	
Wilmington, Del	108,996			5	.05	
Worcester, Mass	178,015			20	.11	
Yonkers, N. Y	99,127	150	1.51	4	.04	37.5
Youngstown, Ohio	129,613			22	.17	

TUBERCULOSIS (ALL FORMS).

Akron, Ohio	201,257	366	1.82	92	0.46	0.4
Albany, N. Y	112,670	288	2.56	192	1.70	1.5
Atlanta, Ga	118,258	103		214	1.08	
Baltimore, Md	724,796	1,873	2.58	1,245	1.72	1.5
Birmingham, Ala	175,922			307	1.75	
Boston, Mass	714,070	2,615	3.51	1,135	1.53	2.3
Bridgeport, Conn	141,401			149	1.05	
Buffalo, N. Y	532,497	1,292	2.57	614	1.22	2.1
Cambridge, Mass	109,444	240	2.19	192	1.75	1.2
Camden, N. J	115,188	193	1.68	52	.45	3.7
Chicago, Ill	2,675,108	15,607	5.83	3,262	1.22	4.8
Cincinnati, Ohio	399,308	1,149	2.88	756	1.89	1.5
Cleveland, Ohio	784,673	1,450	1.85	992	1.26	1.5
Columbus, Ohio	234,172	305		305	1.30	
Dallas, Tex	155,532			148	.95	
Dayton, Ohio	150,706			161	1.07	
Denver, Colo	254,271			712	2.80	
Des Moines, Iowa	124,403			94	.76	
Detroit, Mich	966,547	2,175	2.25	927	.96	2.3
Fall River, Mass	120,424	340	2.82	158	1.31	2.2
Fort Worth, Tex	104,774	61	.58	59	.56	1.0
Grand Rapids, Mich	136,343	204	1.50	81	.59	2.5

[1] Fiscal year Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Continued.

TUBERCULOSIS ALL FORMS—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Hartford, Conn	136,021	.....	.....	102	0.75	.....
Houston, Tex	135,023	.....	.....	119	.88	.....
Indianapolis, Ind	310,046	527	1.70	431	1.39	1.2
Jersey City, N. J	296,518	695	2.34	364	1.23	1.9
Kansas City, Kans	100,206	177	1.77	98	.98	1.8
Kansas City, Mo	320,494	124	.....	376	1.17	.....
Los Angeles, Calif	563,412	2,142	3.80	1,093	1.94	2.0
Louisville, Ky	234,326	383	.....	391	1.67	.....
Lowell, Mass	112,426	288	2.56	143	1.27	2.0
Memphis, Tenn	160,742	.....	.....	297	1.85	.....
Milwaukee, Wis	452,857	.....	.....	380	.84	.....
Minneapolis, Minn	376,504	1,128	3.00	462	1.23	2.4
Newark, N. J	410,778	1,899	4.62	637	1.55	3.0
New Bedford, Mass	119,952	408	3.40	171	1.43	2.4
New Haven, Conn	161,030	389	2.42	139	.86	2.8
New Orleans, La	384,739	.....	.....	881	2.29	.....
New York, N. Y	5,577,151	.....	.....	8,499	1.52	.....
Norfolk, Va	113,298	214	1.89	140	1.24	1.5
Oakland, Calif	212,952	318	1.49	216	1.01	1.5
Omaha, Nebr	188,124	.....	.....	121	.64	.....
Philadelphia, Pa	1,809,039	4,998	2.76	2,923	1.62	1.7
Pittsburgh, Pa	585,397	.....	.....	781	1.33	.....
Portland, Oreg	255,658	259	1.01	167	.65	1.6
Providence, R. I	236,912	.....	.....	327	1.38	.....
Reading, Pa	107,181	.....	.....	95	.89	.....
Richmond, Va	169,399	604	3.57	283	1.67	2.1
Rochester, N. Y	291,753	506	1.73	202	.69	2.5
St. Louis, Mo	768,475	1,848	2.40	852	1.11	2.4
St. Paul, Minn	233,573	571	2.44	281	1.20	2.0
Salt Lake City, Utah	116,505	.....	.....	85	.73	.....
San Antonio, Tex	158,043	222	.....	432	2.73	.....
San Francisco, Calif	592,053	.....	.....	904	1.80	.....
Scranton, Pa	137,375	.....	.....	125	.91	.....
Seattle, Wash	311,611	644	2.07	290	.93	2.2
Spokane, Wash	104,435	114	1.09	70	.67	1.6
Springfield, Mass	127,470	183	1.44	112	.88	1.6
Syracuse, N. Y	169,942	228	1.34	122	.72	1.9
Toledo, Ohio	239,266	356	1.49	350	1.46	1.0
Trenton, N. J	118,132	292	2.47	173	1.46	1.7
Washington, D. C	432,086	1,209	2.80	625	1.45	1.9
Wilmington, Del	108,996	.....	.....	115	1.06	.....
Worcester, Mass	178,015	.....	.....	211	1.19	.....
Yonkers, N. Y	99,127	180	1.82	121	1.22	1.5
Youngstown, Ohio	129,613	.....	.....	128	.99	.....

TUBERCULOSIS (PULMONARY).

Akron, Ohio	201,257	350	1.74	81	0.40	4.3
Baltimore, Md	724,796	1,867	2.58	1,029	1.42	1.8
Birmingham, Ala	175,922	382	2.17	249	1.42	1.5
Boston, Mass	744,070	2,333	3.14	954	1.28	2.4
Bridgeport, Conn	141,401	177	1.25	122	.86	1.5
Buffalo, N. Y	502,497	1,104	2.20	523	1.04	2.1
Cambridge, Mass	109,444	216	1.97	176	1.61	1.2
Chicago, Ill	2,675,108	.....	.....	2,809	1.05	.....
Cleveland, Ohio	784,673	1,441	1.82	841	1.07	1.7
Columbus, Ohio	234,172	290	1.24	248	1.06	1.2
Dallas, Tex	155,532	218	1.40	129	.83	1.7
Dayton, Ohio	150,706	175	1.16	136	.90	1.3
Denver, Colo	254,271	.....	.....	620	2.44	.....
Des Moines, Iowa	124,403	.....	.....	81	.65	.....
Detroit, Mich	966,547	2,094	2.17	755	.78	2.8
Fall River, Mass	120,424	303	2.52	134	1.11	2.3
Grand Rapids, Mich	136,343	.....	.....	72	.53	.....
Hartford, Conn	136,021	211	1.55	86	.63	2.5
Houston, Tex	135,023	.....	.....	26	.19	.....
Indianapolis, Ind	310,046	.....	.....	361	1.16	.....
Jersey City, N. J	296,518	.....	.....	323	1.09	.....
Kansas City, Kans	100,206	.....	.....	82	.82	.....
Louisville, Ky	234,326	352	1.50	332	1.42	1.1
Lowell, Mass	112,426	241	2.14	98	.87	2.5
Memphis, Tenn	160,742	445	2.77	258	1.61	1.7
Milwaukee, Wis	452,857	904	2.00	315	.70	2.9

Reported Prevalence for the Year 1919—Continued.

TUBERCULOSIS (PULMONARY)—Continued.

City.	Estimated population July 1, 1919.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Minneapolis, Minn	376,504	.....	.....	382	1.01	.....
Nashville, Tenn	117,931	199	1.69	177	1.50	1.1
Newark, N. J	410,778	1,644	4.00	552	1.34	3.0
New Bedford, Mass	119,952	372	3.10	142	1.18	2.6
New Haven, Conn	161,030	.....	.....	104	.65	.....
New Orleans, La	384,739	1,293	3.36	812	2.11	1.6
New York, N. Y	5,577,154	14,570	2.61	7,396	1.33	2.0
Norfolk, Va	113,288	.....	.....	130	1.15	.....
Oakland, Calif	212,952	282	1.32	180	.85	1.6
Omaha, Nebr	188,124	.....	.....	108	.57	.....
Paterson, N. J	135,337	383	2.83	143	1.06	2.7
Philadelphia, Pa	1,809,039	.....	.....	2,582	1.43	.....
Pittsburgh, Pa	585,397	1,053	1.80	637	1.09	1.7
Portland, Oreg	255,658	257	1.01	159	.62	1.6
Providence, R. I	236,912	.....	.....	253	1.07	.....
Reading, Pa	107,181	85	.....	90	.84	.....
Richmond, Va	169,399	.....	.....	246	1.45	.....
St. Louis, Mo	768,475	.....	.....	704	.92	.....
St. Paul, Minn	233,573	488	2.09	240	1.02	2.0
Salt Lake City, Utah	116,805	.....	.....	73	.62	.....
San Francisco, Calif	502,053	1,455	2.90	758	1.51	1.9
Scranton, Pa	137,375	156	1.14	92	.67	1.7
Seattle, Wash	311,611	533	1.71	194	.62	2.7
Spokane, Wash	104,435	92	.88	49	.47	1.9
Springfield, Mass	127,470	148	1.16	93	.73	1.6
Syracuse, N. Y	169,942	.....	.....	84	.49	.....
Toledo, Ohio	239,266	.....	.....	314	1.31	.....
Trenton, N. J	118,132	269	2.28	162	1.37	1.7
Washington, D. C	432,086	1,186	2.74	563	1.30	2.1
Worcester, Mass	178,015	306	1.72	174	.98	1.8
Yonkers, N. Y	99,127	165	1.66	103	1.04	1.6
Youngstown, Ohio	129,613	95	.73	90	.69	1.1

Reported Prevalence for the Year 1919—Averages for Previous Years.

CEREBROSPINAL MENINGITIS.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	45	14		35	0.174		Akron, Ohio.
Albany, N. Y	112,670	1914-1918	5	5						Albany, N. Y.
Atlanta, Ga	198,258	1916-1918	3	6	9		9	.045		Atlanta, Ga.
Baltimore, Md	724,796	1914-1918	5	64	68	0.094	39	.054	57.4	Baltimore, Md.
Birmingham, Ala	175,922	1914-1918	5	17	15	.085	11	.063	73.3	Birmingham, Ala.
Boston, Mass	744,070	1914-1918	5	72	75	.101	55	.074	73.3	Boston, Mass.
Bridgeport, Conn	141,401	1914-1918	5	18	6		8	.057		Bridgeport, Conn.
Buffalo, N. Y	502,497	1914-1918	5	25	17	.034	10	.020	58.8	Buffalo, N. Y.
Cambridge, Mass	109,444	1917-1918	2	12	6	.055	2	.018	33.3	Cambridge, Mass.
Camden, N. J.[1]	115,188	1914-1918	5	1	1		1	.009		Camden, N. J.
Chicago, Ill	2,675,108	1914-1918	5	176	108	.040	47	.018	43.5	Chicago, Ill.
Cincinnati, Ohio	399,308	1914-1918	5	28	12	.030	6	.015	50.0	Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914-1918	5	73	18	.023	3	.004	16.7	Cleveland, Ohio.
Columbus, Ohio	234,172	1914-1918	5	8	1	.004	0			Columbus, Ohio.
Dallas, Tex	155,532	1915-1918	4	8	10	.064	6	.039	60.0	Dallas, Tex.
Dayton, Ohio	150,706	1914-1918	5	10	8	.053	3	.020	37.5	Dayton, Ohio.
Denver, Colo	254,271	1914-1917	4	4	6	.024	0			Denver, Colo.
Des Moines, Iowa	124,403	1916-1918	3	5			4	.032		Des Moines, Iowa.
Detroit, Mich	966,547	1914-1918	5	45	56	.058	38	.039	67.9	Detroit, Mich.
Fall River, Mass	120,424	1914-1918	5	7	10	.083	7	.058	70.0	Fall River, Mass.
Fort Worth, Tex	104,774	1915-1918	4	1	2	.019				Fort Worth, Tex.
Grand Rapids, Mich	136,343	1914-1918	5	(2)	6		18	.132		Grand Rapids, Mich.
Hartford, Conn	136,021	1914-1918	5	38	5	.037	1	.007	20.0	Hartford, Conn.
Houston, Tex	135,023	1916-1918	3	4	4		4	.030		Houston, Tex.
Indianapolis, Ind	310,046	1914-1918	5	23	4		4	.013		Indianapolis, Ind.
Jersey City, N. J	296,518	1914-1918	5	11	19	.064	15	.051	78.9	Jersey City, N. J.
Kansas City, Kans	100,206	1914, 1917, 1918	3	25	10	.100	5	.050	50.0	Kansas City, Kans.
Kansas City, Mo	320,494	1914-1918	5	41	21	.066	12	.037	57.1	Kansas City, Mo.
Los Angeles, Calif	563,412	1914-1918	5	25	31	.055	7	.012	22.6	Los Angeles, Calif.
Louisville, Ky	234,326	1914-1918	5	25						Louisville, Ky.
Lowell, Mass	112,426	1914-1918	5	13	8	.071	6	.053	75.0	Lowell, Mass.
Memphis, Tenn	160,742	1917-1918	2	20	10	.062	7	.044	70.0	Memphis, Tenn.
Milwaukee, Wis	452,857	1918	1	20			21	.046		Milwaukee, Wis.
Minneapolis, Minn	376,504	1915-1918	4	44	10	.027	3	.008	30.0	Minneapolis, Minn.
Nashville, Tenn	117,931	1914-1918	5	13	24	.204	14	.119	58.3	Nashville, Tenn.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

[2] Average less than 1.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

CEREBROSPINAL MENINGITIS—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Newark, N. J.	410,778	1914-1918	5	48	42	0.102	22	0.054	52.4	Newark, N. J.
New Bedford, Mass.	119,952	1914-1918	5	2			5	.042		New Bedford, Mass.
New Haven, Conn.	161,030	1914-1918	5	9	11	.068	3	.019	27.3	New Haven, Conn.
New Orleans, La.	384,739	1914-1918	5	22	12	.031	6	.016	50.0	New Orleans, La.
New York, N. Y.	5,577,154	1914-1918	5	311	317	.057	173	.031	54.6	New York, N. Y.
Norfolk, Va.	113,288	1918	1	28	2	.018				Norfolk, Va.
Oakland, Calif.	212,952	1914-1918	5	2	2	.009	1	.005	50.0	Oakland, Calif.
Omaha, Nebr.	188,124	1914, 1916-1917	3	14	7	.037	6	.032	85.7	Omaha, Nebr.
Paterson, N. J.	135,337	1914-1918	5	5	19	.140	8	.059	42.1	Paterson, N. J.
Philadelphia, Pa.	1,809,039	1914-1918	5	150	68	.038	46	.025	67.7	Philadelphia, Pa.
Pittsburgh, Pa.	585,397	1914-1918	5	49	10	.017	9	.015	90.0	Pittsburgh, Pa.
Portland, Oreg.	255,658	1916-1918	3	1	15	.059	8	.031	53.3	Portland, Oreg.
Providence, R. I.	236,912	1914-1918	5	26	24	.101	9	.038	37.5	Providence, R. I.
Reading, Pa.	107,181	1914-1918	5	2	3	.028	2	.019	66.7	Reading, Pa.
Richmond, Va.	169,399	1914-1918	5	2	4		4	.024		Richmond, Va.
Rochester, N. Y.	291,753	1914, 1916-1918	4	7	12	.041	7	.024	58.3	Rochester, N. Y.
St. Louis, Mo.	768,475	1014-1918	5	74	37	.048	12	.016	32.4	St. Louis, Mo.
St. Paul, Minn.	233,573	1914-1918	5	15	3	.013	2	.009	66.7	St. Paul, Minn.
Salt Lake City, Utah	116,805	1914-1918	5	5	8	.068	3	.026	37.5	Salt Lake City, Utah.
San Antonio, Tex.	158,043	1915-1918	4	12	10		10	.063		San Antonio, Tex.
San Francisco, Calif.	502,053	1914-1918	5	18	40	.080	16	.032	40.0	San Francisco, Calif.
Scranton, Pa.	137,375	1914-1918	5	2	5	.036	4	.029	80.0	Scranton, Pa.
Seattle, Wash.	311,611	1914-1918	5	6	14	.045				Seattle, Wash.
Spokane, Wash.	104,435	1916-1918	3	1	1		1	.010		Spokane, Wash.
Springfield, Mass.	127,470	1914-1918	5	5	2		3	.024		Springfield, Mass.
Syracuse, N. Y.	169,942	1914-1918	5	2	3		3	.018		Syracuse, N. Y.
Toledo, Ohio	239,266	1914-1918	5	6	4	.017	1	.004	25.0	Toledo, Ohio.
Trenton, N. J.	118,132	1914-1918	5	1	8	.068	6	.051	75.0	Trenton, N. J.
Washington, D. C.	432,086	1914-1917	4	13	13	.030	8	.019	61.5	Washington, D. C.
Wilmington, Del.	108,996	1914, 1915, 1917, 1918	4	1	3	.028	2	.018	66.7	Wilmington, Del.
Worcester, Mass.	178,015	1914, 1916-1918	4	12	9	.051	6	.034	66.7	Worcester, Mass.
Yonkers, N. Y.	99,127	1914, 1916-1918	4	5	4	.040	1	.010	25.0	Yonkers, N. Y.
Youngstown, Ohio	129,613	1916-1918	3	14	3	.023	2	.015	66.7	Youngstown, Ohio.

DIPHTHERIA.

Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	416	164	0.81	17	0.08	10.4	Akron, Ohio.
Albany, N. Y	112,670	1914-1918	5	113	126	1.12	9	.08	7.1	Albany, N. Y.
Atlanta, Ga	198,258	1916-1918	3	145	271	1.37	16	.08	5.9	Atlanta, Ga.
Baltimore, Md	724,796	1914-1918	5	896	1,625	2.24	146	.20	9.0	Baltimore, Md.
Birmingham, Ala	175,922	1914-1918	5	157	321	1.82	17	.10	5.3	Birmingham, Ala.
Boston, Mass	744,070	1914-1918	5	2,985	2,670	3.59	153	.21	5.7	Boston, Mass.
Bridgeport, Conn	141,401	1914-1918	5	304	474	3.35	42	.30	8.9	Bridgeport, Conn.
Buffalo, N. Y	502,497	1914-1918	5	906	3,589	7.14	300	.60	8.4	Buffalo, N. Y.
Cambridge, Mass	109,444	1917, 1918	2	443	249	2.28	4	.04	1.6	Cambridge, Mass.
Camden, N. J.[1]	115,188	1914-1918	5	188	187	1.62	17	.15	9.1	Camden, N. J.
Chicago, Ill	2,675,108	1914-1918	5	7,182	6,361	2.38	592	.22	9.3	Chicago, Ill.
Cincinnati, Ohio	399,308	1914-1918	5	955	690	1.73	53	.13	7.7	Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914-1918	5	1,912	2,117	2.70	190	.24	9.0	Cleveland, Ohio.
Columbus, Ohio	234,172	1914-1918	5	338	162	.69	6	.03	3.7	Columbus, Ohio.
Dallas, Tex	155,532	1915-1918	4	98	469	3.02	24	.15	5.1	Dallas, Tex.
Dayton, Ohio	150,706	1914-1918	5	293	161	1.07	6	.04	3.7	Dayton, Ohio.
Denver, Colo	254,271	1914-1918	5	310	438	1.72	27	.11	6.2	Denver, Colo.
Des Moines, Iowa	124,403	1916-1918	3	156	.....	.....	19	.15	.....	Des Moines, Iowa.
Detroit, Mich	966,547	1914-1918	5	2,980	3,596	3.72	307	.32	8.5	Detroit, Mich.
Fall River, Mass	120,424	1914-1918	5	172	218	1.81	26	.22	11.9	Fall River, Mass.
Fort Worth, Tex	104,774	1915-1918	4	88	457	4.36	21	.20	4.6	Fort Worth, Tex.
Grand Rapids, Mich	136,343	1914-1918	5	170	140	1.03	9	.07	6.4	Grand Rapids, Mich.
Hartford, Conn	136,021	1914-1918	5	342	343	2.52	15	.11	4.4	Hartford, Conn.
Houston, Tex	135,023	1916-1918	3	92	178	1.32	8	.06	4.5	Houston, Tex.
Indianapolis, Ind	310,046	1914-1918	5	773	430	1.39	51	.16	11.9	Indianapolis, Ind.
Jersey City, N. J	296,518	1914-1918	5	812	1,144	3.86	92	.31	8.0	Jersey City, N. J.
Kansas City, Kans	100,206	1914, 1917, 1918	3	140	188	1.88	15	.15	8.0	Kansas City, Kans.
Kansas City, Mo	320,494	1914-1918	5	531	342	1.07	36	.11	10.5	Kansas City, Mo.
Los Angeles, Calif	563,412	1914-1918	5	671	749	1.33	29	.05	3.9	Los Angeles, Calif.
Louisville, Ky	234,326	1914-1918	5	228	688	2.94	40	.17	5.8	Louisville, Ky.
Lowell, Mass	112,426	1914-1918	5	258	234	2.08	23	.20	9.8	Lowell, Mass.
Memphis, Tenn	160,742	1917, 1918	2	342	586	3.65	19	.12	3.2	Memphis, Tenn.
Milwaukee, Wis	452,857	1914, 1916-1918	4	766	1,017	2.25	96	.21	9.4	Milwaukee, Wis.
Minneapolis, Minn	376,504	1915-1918	4	1,025	917	2.44	68	.18	7.4	Minneapolis, Minn.
Nashville, Tenn	117,931	1914-1918	5	97	215	1.82	12	.10	5.6	Nashville, Tenn.
Newark, N. J	410,778	1914-1918	5	1,092	1,565	3.81	50	.12	3.2	Newark, N. J.
New Bedford, Mass	119,952	1914-1918	5	126	144	1.20	21	.18	14.6	New Bedford, Mass.
New Haven, Conn	161,030	1914-1918	5	251	435	2.70	14	.09	3.2	New Haven, Conn.
New Orleans, La	384,739	1914-1918	5	1,206	338	.88	16	.04	4.7	New Orleans, La.
New York, N. Y	5,577,154	1914-1918	5	14,002	14,014	2.51	1,240	.22	8.8	New York, N. Y.
Norfolk, Va	113,288	1918	1	54	155	1.37	7	.06	4.5	Norfolk, Va.
Oakland, Calif	212,952	1914-1918	5	143	184	.86	19	.09	10.3	Oakland, Calif.
Omaha, Nebr	188,124	1914, 1916-1918	4	344	175	.93	18	.10	10.3	Omaha, Nebr.
Paterson, N. J	135,337	1914-1918	5	233	374	2.76	19	.14	5.1	Paterson, N. J.
Philadelphia, Pa	1,809,039	1914-1918	5	2,668	3,763	2.08	437	.24	11.6	Philadelphia, Pa
Pittsburgh, Pa	585,397	1914-1918	5	1,320	1,318	2.25	103	.18	7.8	Pittsburgh, Pa.
Portland, Oreg	255,658	1916-1918	3	126	184	.72	19	.07	10.3	Portland, Oreg.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

DIPHTHERIA—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Providence, R. I.	236,912	1914-1918	5	751	991	4.18	77	0.33	7.8	Providence, R. I.
Reading, Pa.	107,181	1914-1918	5	137	286	2.67	27	.25	9.4	Reading, Pa.
Richmond, Va.	169,399	1914-1918	5	274	253	1.49	15	.09	5.9	Richmond, Va.
Rochester, N. Y.	291,753	1914, 1916-1918	4	319	750	2.57	46	.16	6.1	Rochester, N. Y.
St. Louis, Mo.	768,475	1914-1918	5	3,181	3,370	4.39	260	.34	7.7	St. Louis, Mo.
St. Paul, Minn.	233,573	1914-1918	5	752	1,265	5.42	86	.37	6.8	St. Paul, Minn.
Salt Lake City, Utah	116,805	1914-1918	5	183	122	1.04	11	.09	9.0	Salt Lake City, Utah.
San Antonio, Tex.	158,043	1915-1918	4	132	230	1.46	15	.09	6.5	San Antonio, Tex.
San Francisco, Calif.	502,053	1914-1918	5	1,008	554	1.10	51	.10	9.2	San Francisco, Calif.
Scranton, Pa.	137,375	1914-1918	5	325	206	1.50	21	.15	10.2	Scranton, Pa.
Seattle, Wash.	311,611	1914-1918	5	146	380	1.22	43	.14	11.3	Seattle, Wash.
Spokane, Wash.	104,435	1916-1918	3	49	114	1.09	2	.02	1.8	Spokane, Wash.
Springfield, Mass.	127,470	1914-1918	5	229	140	1.10	25	.20	17.9	Springfield, Mass.
Syracuse, N. Y.	169,942	1914-1918	5	330	294	1.73	24	.14	8.2	Syracuse, N. Y.
Toledo, Ohio	239,266	1914-1918	5	307	318	1.33	26	.11	8.2	Toledo, Ohio.
Trenton, N. J.	118,132	1914-1918	5	278	218	1.85	15	.13	6.9	Trenton, N. J.
Washington, D. C.	432,086	1914-1918	5	678	1,169	2.71	119	.28	10.2	Washington, D. C.
Wilmington, Del.	108,996	1914, 1915, 1917, 1918	4	84	153	1.40	22	.20	14.4	Wilmington, Del.
Worcester, Mass.	178,015	1914, 1916-1918	4	271	329	1.85	16	.09	4.9	Worcester, Mass.
Yonkers, N. Y.	99,127	1914, 1916-1918	4	206	294	2.97	12	.12	4.1	Yonkers, N. Y.
Youngstown, Ohio	129,613	1916-1918	3	182	220	1.70	23	.18	10.5	Youngstown, Ohio.

MEASLES.

Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	539	1,075	5.34	3	0.015	0.3	Akron, Ohio.
Albany, N. Y.	112,670	1914-1918	5	755	695	6.17	5	.044	.7	Albany, N. Y.
Atlanta, Ga.	198,258	1917-1918	2	736	294	1.48	1	.005	.3	Atlanta, Ga.
Baltimore, Md.	724,796	1914-1918	5	3,887	825	1.14	7	.010	.8	Baltimore, Md.
Birmingham, Ala.	175,922	1914-1918	5	1,931	254	1.44	7	.040	2.8	Birmingham, Ala.
Boston, Mass.	744,070	1914-1918	5	5,224	2,196	2.95	27	.036	1.2	Boston, Mass.
Bridgeport, Conn.	141,401	1914, 1915, 1917, 1918	4	328	565	4.00	13	.092	2.3	Bridgeport, Conn.
Buffalo, N. Y.	502,497	1914-1918	5	2,798	1,398	2.78	36	.072	2.6	Buffalo, N. Y.
Cambridge, Mass.	109,444	1917, 1918	2	1,354	191	1.75	2	.018	1.0	Cambridge, Mass.

Camden, N. J.[1]	115,188	1914–1918	5	414	74	.64				Camden, N. J.
Chicago, Ill	2,675,108	1914–1918	5	10,646	16,075	6.01	200	.075	1.2	Chicago, Ill.
Cincinnati, Ohio	399,308	1914–1918	5	755	982	2.46	9	.023	.9	Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914–1918	5	2,636	2,135	2.72	48	.061	2.2	Cleveland, Ohio.
Columbus, Ohio	234,172	1914–1918	5	1,111	202	.86	0			Columbus, Ohio.
Dallas, Tex	155,532	1915–1918	4	1,233	27	.17	1	.006	3.7	Dallas, Tex.
Dayton, Ohio	150,706	1914–1918	5	897	124	.82	4	.027	3.2	Dayton, Ohio.
Denver, Colo	254,271	1914–1918	5	2,548	314	1.24	1	.004	.3	Denver, Colo.
Des Moines, Iowa	124,403	1918	1	86			1	.008		Des Moines, Iowa.
Detroit, Mich	966,547	1915–1918	4	1,488	2,302	2.38	72	.074	3.1	Detroit, Mich.
Fall River, Mass	120,424	1914–1918	5	625	1,213	10.07	56	.465	4.6	Fall River, Mass.
Fort Worth, Tex	104,774	1915–1918	4	437	110	1.05	1	.010	.9	Fort Worth, Tex.
Grand Rapids, Mich	136,343	1914–1918	5	1,179	330	2.42	2	.015	.6	Grand Rapids, Mich.
Hartford, Conn	136,021	1914–1918	5	584	692	5.09	13	.096	1.9	Hartford, Conn.
Houston, Tex	135,023	1916–1918	3	550			2	.015		Houston, Tex.
Indianapolis, Ind	310,046	1914–1918	5	3,785	973	3.14	5	.016	.5	Indianapolis, Ind.
Jersey City, N. J	296,518	1914–1918	5	1,134	468	1.58	8	.027	1.7	Jersey City, N. J.
Kansas City, Kans	100,206	1914, 1917, 1918	3	548	115	1.15	0			Kansas City, Kans.
Kansas City, Mo	320,494	1914–1918	5	1,619	1,122	3.50	31	.097	2.8	Kansas City, Mo.
Los Angeles, Calif	563,412	1914–1918	5	3,252	278	.49				Los Angeles, Calif.
Louisville, Ky	234,326	1914–1918	5	302	182	.78	2	.009	1.1	Louisville, Ky.
Lowell, Mass	112,426	1914–1918	5	547	168	1.49	4	.036	2.4	Lowell, Mass.
Memphis, Tenn	160,742	1917–1918	2	1,579	721	4.49	4	.025	.6	Memphis, Tenn.
Milwaukee, Wis	452,857	1914, 1916–1918	4	3,867	410	.91				Milwaukee, Wis.
Minneapolis, Minn	376,504	1915–1918	4	1,291	743	1.97	7	.019	.9	Minneapolis, Minn.
Nashville, Tenn	117,931	1914–1918	5	646	408	3.46	13	.110	3.2	Nashville, Tenn.
Newark, N. J	410,778	1914–1918	5	5,142	661	1.61	7	.017	1.1	Newark, N. J.
New Bedford, Mass	119,952	1914–1918	5	573	792	6.60	3	.025	.4	New Bedford, Mass.
New Haven, Conn	161,030	1914–1918	5	730	855	5.31	8	.050	.9	New Haven, Conn.
New Orleans, La	384,739	1914–1918	5	2,143	103	.27	2	.005	1.9	New Orleans, La.
New York, N. Y	5,577,154	1914–1918	5	28,335	8,194	1.47	218	.039	2.7	New York, N. Y.
Norfolk, Va	113,288	1918	1	331	88	.78				Norfolk, Va.
Oakland, Calif	212,952	1914–1918	5	599	445	2.09	2	.009	.4	Oakland, Calif.
Omaha, Nebr	188,124	1914, 1916–1918	4	568	416	2.21	4	.021	1.0	Omaha, Nebr.
Paterson, N. J	135,337	1914–1918	5	1,010	46	.34	0			Paterson, N. J.
Philadelphia, Pa	1,809,639	1914–1918	5	9,464	3,076	1.70	40	.022	1.3	Philadelphia, Pa.
Pittsburgh, Pa	585,397	1914–1918	5	4,847	939	1.60	10	.017	1.1	Pittsburgh, Pa.
Portland, Oreg	255,658	1916–1918	3	2,053	118	.46	0			Portland, Oreg.
Providence, R. I	236,912	1914–1918	5	828	35	.15	4	.017	11.4	Providence, R. I.
Reading, Pa	107,181	1914–1918	5	808	2,292	21.38	12	.112	.5	Reading, Pa.
Richmond, Va	169,399	1914–1918	5	1,987	403	2.38	4	.024	1.0	Richmond, Va.
Rochester, N. Y	291,753	1914, 1916–1918	4	1,857	749	2.57	9	.031	1.2	Rochester, N. Y.
St. Louis, Mo	768,475	1914, 1915, 1917, 1918	4	4,897	1,940	2.55	34	.044	1.7	St. Louis, Mo.
St. Paul, Minn	233,573	1914–1918	5	1,433	1,332	5.83	16	.069	1.2	St. Paul, Minn.
Salt Lake City, Utah	116,805	1914–1918	5	1,381	43	.37				Salt Lake City, Utah.
San Antonio, Tex	158,043	1915–1918	4	279	34	.23	1	.006	2.8	San Antonio, Tex.
San Francisco, Calif	502,053	1914–1918	5	2,695	2,012	4.01	9	.018	.4	San Francisco, Calif.
Scranton, Pa	137,375	1914–1918	5	514	49	.35	1	.007	2.0	Scranton, Pa.
Seattle, Wash	311,611	1914–1918	5	2,220	860	2.76	6	.019	.7	Seattle, Wash.
Spokane, Wash	104,435	1916–1918	3	1,868	168	1.61	1	.010	.6	Spokane, Wash.
Springfield, Mass	127,470	1914–1918	5	728	40	.31	2	.016	5.0	Springfield, Mass.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

MEASLES—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Syracuse, N. Y	169,942	1914–1918	5	1,451	51	0.30	2	0.012	3.9	Syracuse, N. Y.
Toledo, Ohio	239,266	1914–1918	5	1,614	2,911	12.17	13	.054	.4	Toledo, Ohio.
Trenton, N. J	118,132	1914–1918	5	428	747	6.32	10	.085	1.3	Trenton, N. J.
Washington, D. C	432,086	1914–1918	5	3,267	187	.43	1	.002	.5	Washington, D. C.
Wilmington, Del	108,996	1914, 1915, 1917, 1918	4	208	48	.44	1	.009	2.1	Wilmington, Del.
Worcester, Mass	178,015	1914, 1916–1918	4	513	756	4.25	23	.129	3.0	Worcester, Mass.
Yonkers, N. Y	99,127	1914, 1916–1918	4	751	176	1.78				Yonkers, N. Y.
Youngstown, Ohio	129,613	1916–1918	3	1,182	1,213	9.36	16	.123	1.3	Youngstown, Ohio.

PELLAGRA.

Atlanta, Ga	198,258						42	0.212		Atlanta, Ga.
Baltimore, Md	724,796	1915–1918	4	1	2		4	.006		Baltimore, Md.
Birmingham, Ala	175,922	1915–1918	4	115	35		47	.267		Birmingham, Ala.
Boston, Mass	744,070	1915–1918	4	8	4	0.005	1	.001	25.0	Boston, Mass.
Buffalo, N. Y	502,497						2	.004		Buffalo, N. Y.
Cambridge, Mass	109,444	1917, 1918	2	1	0		0			Cambridge, Mass.
Chicago, Ill	2,675,108						4	.001		Chicago, Ill.
Cincinnati, Ohio	399,308	1915–1918	4	1						Cincinnati, Ohio.
Cleveland, Ohio	784,673	1915–1918	4	1			1	.001		Cleveland, Ohio.
Columbus, Ohio	234,172	1915–1918	4	(2)	0		0			Columbus, Ohio.
Dallas, Tex	155,532	1915–1917	3	32	39	.250	19	.122	48.7	Dallas, Tex.
Denver, Colo	254,271	1915–1918	4	1	0		0			Denver, Colo.
Des Moines, Iowa	124,403						1	.008		Des Moines, Iowa.
Detroit, Mich	966,547	1915–1918	4	(2)	0		0			Detroit, Mich.
Fall River, Mass	120,424	1915–1918	4	1	0		0			Fall River, Mass.
Fort Worth, Tex	104,774	1918	1	20			15	.143		Fort Worth, Tex.
Hartford, Conn	136,021	1915–1918	4	1						Hartford, Conn.
Houston, Tex	135,023	1916–1918	3	14			19	.141		Houston, Tex.
Indianapolis, Ind	310,046	1915–1918	4	1						Indianapolis, Ind.
Kansas City, Kans	100,206	1917, 1918	2	1						Kansas City, Kans.
Kansas City, Mo	320,494	1915–1918	4	1	1		2	.006		Kansas City, Mo.
Los Angeles, Calif	563,412	1915–1918	4	8	7	.012	4	.007	57.1	Los Angeles, Calif.
Louisville, Ky	234,326	1915–1917	3	3	2	.009	1	.004	50.0	Louisville, Ky.

Lowell, Mass	112,426	1915-1918	4	1	0		0			Lowell, Mass.
Memphis, Tenn	160,742	1917,1918	2	103	14		29	.180		Memphis, Tenn.
Milwaukee, Wis	452,857	1916-1918	3	(2)						Milwaukee, Wis.
Minneapolis, Minn	376,504	1915-1918	4	(2)	1		1	.003		Minneapolis, Minn.
Nashville, Tenn	117,931	1915-1918	4	252	10		22	.187		Nashville, Tenn.
New Orleans, La	384,739	1915-1918	4	60	26	.068	25	.065	96.2	New Orleans, La.
New York, N. Y	5,577,154	1915-1918	4	5			4	.001		New York, N. Y.
Norfolk, Va	113,288				3		3	.026		Norfolk, Va.
Paterson, N. J	135,337	1915-1918	4	(2)	0		0			Paterson, N. J.
Philadelphia, Pa	1,809,639	1915-1918	4	2	2	.001	1	.001	50.0	Philadelphia, Pa.
Pittsburgh, Pa	585,397	1915-1918	4	1	0		0			Pittsburgh, Pa.
Providence, R. I	236,912	1915-1918	4	1	0		0			Providence, R. I.
Richmond, Va	169,399	1915-1918	4	22	13		17	.100		Richmond, Va.
St. Louis, Mo	768,475						3	.004		St. Louis, Mo.
Salt Lake City, Utah	116,805						1	.009		Salt Lake City, Utah.
San Antonio, Tex	158,043				1		11	.070		San Antonio, Tex.
San Francisco, Calif	502,053	1915-1918	4	(2)	1		1	.002		San Francisco, Calif.
Seattle, Wash	311,611	1915-1918	4	(2)						Seattle, Wash.
Springfield, Mass	127,470	1915-1918	4	(2)	0		0			Springfield, Mass.
Washington, D. C	432,086	1915-1918	4	18	12	.028	9	.021	75.0	Washington, D. C.
Worcester, Mass	178,015	1916-1918	3	5	1		1	.006		Worcester, Mass.
Youngstown, Ohio	129,613	1916-1918	3	(2)	0		0			Youngstown, Ohio.

POLIOMYELITIS (INFANTILE PARALYSIS).

Akron, Ohio	201,257	1914,1915,1917,1918	4	31	4	0.020	2	0.010	50.0	Akron, Ohio.
Albany, N. Y	112,670	1913-1915,1917,1918	5	1						Albany, N. Y.
Atlanta, Ga	198,258	1917,1918	2	0	1	.005				Atlanta, Ga.
Baltimore, Md	724,796	1913-1915,1917,1918	5	14	83	.115	28	.039	33.7	Baltimore, Md.
Birmingham, Ala	175,922	1913-1915,1917,1918	5	2	21	.119	6	.034	28.6	Birmingham, Ala.
Boston, Mass	744,070	1913-1915,1917,1918	5	25	15	.020	3	.004	20.0	Boston, Mass.
Bridgeport, Conn	141,401	1913-1915,1917,1918	5	2			1	.007		Bridgeport, Conn.
Buffalo, N. Y	502,497	1913-1915,1917,1918	5	14	3	.006	0			Buffalo, N. Y.
Cambridge, Mass	109,444	1913,1917,1918	3	3	0		0			Cambridge, Mass.
Camden, N. J.[1]	115,188	1914,1915,1917,1918	4	1	1	.009				Camden, N. J.[1]
Chicago, Ill	2,675,108	1913-1915,1918	4	41	110	.041	16	.006	14.5	Chicago, Ill.
Cincinnati, Ohio	399,308	1913-1915,1917,1918	5	10	2	.005	0			Cincinnati, Ohio.
Cleveland, Ohio	784,673	1913-1915,1917,1918	5	49	10	.013	0			Cleveland, Ohio.
Columbus, Ohio	234,172	1913-1915,1917,1918	5	5	1		1	.004		Columbus, Ohio.
Dallas, Tex	155,532	1915,1917,1918	3	5	6	.039	1	.006	16.7	Dallas, Tex.
Dayton, Ohio	150,706	1913-1915,1917,1918	5	3	2	.013	0			Dayton, Ohio.
Denver, Colo	254,271	1913-1915,1917,1918	5	1	9	.035	1	.004	11.1	Denver, Colo.
Des Moines, Iowa	124,403	1917,1918	2	2			0			Des Moines, Iowa.
Detroit, Mich	966,547	1913-1915,1917,1918	5	8	13	.013	4	.004	30.8	Detroit, Mich.
Fall River, Mass	120,424	1913-1915,1917,1918	5	5	1	.008				Fall River, Mass.
Fort Worth, Tex	104,774	1915,1917,1918	3	(2)			3	.029		Fort Worth, Tex.
Grand Rapids, Mich	136,343	1913-1915,1917,1918	5	2	4	.029	0			Grand Rapids, Mich.
Hartford, Conn	136,021	1913-1915,1917,1918	5	6						Hartford, Conn.

[1] Fiscal year Dec. 15, 1918, to Dec. 15, 1919.

[2] Average less than 1.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
Houston, Tex.	135,023	1917, 1918	2	1	0		0			Houston, Tex.
Indianapolis, Ind.	310,046	1913-1915, 1917, 1918	5	4	3		3	0.010		Indianapolis, Ind.
Jersey City, N. J.	296,518	1913-1915, 1917, 1918	5	3	1	0.003	0			Jersey City, N. J.
Kansas City, Kans.	100,206	1914, 1917, 1918	3	4			1	.010		Kansas City, Kans.
Kansas City, Mo.	320,494	1913-1915, 1917, 1918	5	8	9	.028	3	.009	33.3	Kansas City, Mo.
Los Angeles, Calif.	563,412	1913-1915, 1917, 1918	5	11	9	.016	1	.002	11.1	Los Angeles, Calif.
Louisville, Ky.	234,326	1913-1915, 1917, 1918	5	3	1	.044	0			Louisville, Ky.
Lowell, Mass.	112,426	1913-1915, 1917, 1918	5	7	8	.071	3	.027	37.5	Lowell, Mass.
Memphis, Tenn.	160,742	1917, 1918	2	0	1	.006	0			Memphis, Tenn.
Milwaukee, Wis.	452,857	1913, 1914, 1917, 1918	4	26	90	.199	13	.029	14.4	Milwaukee, Wis.
Minneapolis, Minn.	376,504	1915, 1917, 1918	3	3	9	.024	1	.003	11.1	Minneapolis, Minn.
Nashville, Tenn.	117,931	1913-1915, 1917, 1918	5	2	1		1	.008		Nashville, Tenn.
Newark, N. J.	410,778	1913-1915, 1917, 1918	5	19	9	.022	2	.005	22.2	Newark, N. J.
New Bedford, Mass.	119,952	1914, 1915, 1917, 1918	4	4	0		0			New Bedford, Mass.
New Haven, Conn.	161,030	1913-1915, 1917, 1918	5	2	3	.019	0			New Haven, Conn.
New Orleans, La.	384,739	1913-1915, 1917, 1918	5	9	3	.008	0			New Orleans, La.
New York, N. Y.	5,577,154	1913-1915, 1917, 1918	5	161	42	.008	11	.002	26.1	New York, N. Y.
Oakland, Calif.	212,952	1914, 1915, 1917, 1918	4	2	0		0			Oakland, Calif.
Omaha, Nebr.	188,124	1913, 1914, 1917, 1918	4	6	10	.053				Omaha, Nebr.
Paterson, N. J.	135,337	1913-1915, 1917, 1918	5	2	0		0			Paterson, N. J.
Philadelphia, Pa.	1,809,039	1913-1915, 1917, 1918	5	18	7	.004	2	.001	28.6	Philadelphia, Pa.
Pittsburgh, Pa.	585,397	1913-1915, 1917, 1918	5	22	6	.010	4	.007	66.7	Pittsburgh, Pa.
Portland, Oreg.	255,658	1917, 1918	2	16			0			Portland, Oreg.
Providence, R. I.	236,912	1913-1915, 1917, 1918	5	14	2	.008	0			Providence, R. I.
Reading, Pa.	107,181	1914, 1915, 1917, 1918	4	3	2	.019	0			Reading, Pa.
Richmond, Va.	169,399	1914, 1915, 1917, 1918	4	2	12	.071	2	.012	16.7	Richmond, Va.
Rochester, N. Y.	291,753	1913, 1914, 1917, 1918	4	7	1	.003	0			Rochester, N. Y.
St. Louis, Mo.	768,475	1913-1915, 1917, 1918	5	13	16	.021	5	.007	31.3	St. Louis, Mo.
St. Paul, Minn.	233,573	1913-1915, 1917, 1918	5	3	4	.017	1	.004	25.0	St. Paul, Minn.
Salt Lake City, Utah	116,805	1913-1915, 1917, 1918	5	4	4	.034	3	.026	75.0	Salt Lake City, Utah.
San Antonio, Tex.	158,043	1913, 1915, 1917, 1918	4	1	1		1	.006		San Antonio, Tex.
San Francisco, Calif.	502,053	1913-1915, 1917, 1918	5	11	3	.006	0			San Francisco, Calif.
Scranton, Pa.	137,375	1914, 1915, 1917, 1918	4	1	0		0			Scranton, Pa.
Seattle, Wash.	311,611	1913-1915, 1917, 1918	5	5						Seattle, Wash.
Spokane, Wash.	104,435	1913, 1917, 1918	3	2	1	.010	0			Spokane, Wash.
Springfield, Mass.	127,470	1913-1915, 1917, 1918	5	8	2	.016	0			Springfield, Mass.
Syracuse, N. Y.	169,942	1913-1915, 1917, 1918	5	5	0		0			Syracuse, N. Y.

Toledo, Ohio	239,266	1913-1915, 1917, 1918	5	5	16	.067	3	.013	18.8	Toledo, Ohio.
Trenton, N. J.	118,132	1914, 1915, 1917, 1918	4	1	2	.017	1	.008	50.0	Trenton, N. J.
Washington, D. C.	432,086	1913-1915, 1917, 1918	5	5	11	.025				Washington, D. C.
Wilmington, Del.	108,996				1	.009	0			Wilmington, Del.
Worcester, Mass.	178,015	1913, 1914, 1917, 1918	4	9	1		6	.034		Worcester, Mass.
Yonkers, N. Y.	99,127	1913, 1914, 1917, 1918	4	1	3	.030	1	.010	33.3	Yonkers, N. Y.
Youngstown, Ohio	129,613	1917, 1918	2	4	1		1	.008		Youngstown, Ohio.

SCARLET FEVER.

Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	235	363	1.80	7	0.035	1.9	Akron, Ohio.
Albany, N. Y.	112,670	1914-1918	5	175						Albany, N. Y.
Atlanta, Ga.	198,258	1916-1918	3	167	220	1.11	8	.040	3.6	Atlanta, Ga.
Baltimore, Md.	724,796	1914-1918	5	789	3,860	5.33	30	.041	.8	Baltimore, Md.
Birmingham, Ala.	175,922	1914-1918	5	213	193	1.10	4	.023	2.1	Birmingham, Ala.
Boston, Mass.	744,070	1914-1918	5	2,050	2,173	2.92	30	.040	1.4	Boston, Mass.
Bridgeport, Conn.	141,401	1914-1918	5	146	93	.66	3	.021	3.2	Bridgeport, Conn.
Buffalo, N. Y.	502,497	1914-1918	5	631	885	1.76	21	.042	2.4	Buffalo, N. Y.
Cambridge, Mass.	109,444	1917, 1918	2	110	192	1.75	0			Cambridge, Mass.
Camden, N. J.[1]	115,188	1914-1918	5	75	152	1.32	1	.009	.7	Camden, N. J.
Chicago, Ill.	2,675,108	1914-1918	5	6,164	4,550	1.70	116	.043	2.5	Chicago, Ill.
Cincinnati, Ohio	399,308	1914-1918	5	377	999	2.50	11	.028	1.1	Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914-1918	5	681	580	.74	7	.009	1.2	Cleveland, Ohio.
Columbus, Ohio	234,172	1914-1918	5	419	242	1.03	5	.021	2.1	Columbus, Ohio.
Dallas, Tex.	155,532	1915-1918	4	103	85	.55	4	.026	4.7	Dallas, Tex.
Dayton, Ohio	150,706	1914-1918	5	534	108	.72	1	.007	.9	Dayton, Ohio.
Denver, Colo.	254,271	1914-1918	5	484	359	1.41	4	.016	1.1	Denver, Colo.
Des Moines, Iowa	124,403	1916-1918	3	230			5	.040		Des Moines, Iowa.
Detroit, Mich.	966,547	1914-1918	5	2,120	2,759	2.85	71	.073	2.6	Detroit, Mich.
Fall River, Mass.	120,424	1914-1918	5	162	61	.51	2	.017	3.3	Fall River, Mass.
Fort Worth, Tex.	104,774	1915-1918	4	83	46	.44	1	.010	2.2	Fort Worth, Tex.
Grand Rapids, Mich.	136,343	1914-1918	5	328	116	.85	1	.007	.9	Grand Rapids, Mich.
Hartford, Conn.	136,021	1914-1918	5	150	383	2.82	14	.103	3.7	Hartford, Conn.
Houston, Tex.	135,023	1916-1918	3	41	24	.18	0			Houston, Tex.
Indianapolis, Ind.	310,046	1914-1918	5	620	470	1.52	3	.010	.6	Indianapolis, Ind.
Jersey City, N. J.	296,518	1914-1918	5	640	250	.84	10	.034	4.0	Jersey City, N. J.
Kansas City, Kans.	100,206	1914, 1917, 1918	3	234	74	.74	3	.030	4.0	Kansas City, Kans.
Kansas City, Mo.	320,494	1914-1918	5	689	236	.74	15	.047	6.4	Kansas City, Mo.
Los Angeles, Calif.	563,412	1914-1918	5	480	371	.66	6	.011	1.6	Los Angeles, Calif.
Louisville, Ky.	234,326	1914-1918	5	132	305	1.30	3	.013	1.0	Louisville, Ky.
Lowell, Mass.	112,426	1914-1918	5	94	325	2.89	6	.053	1.8	Lowell, Mass.
Memphis, Tenn.	160,742	1917, 1918	2	162	201	1.25	3	.019	1.5	Memphis, Tenn.
Milwaukee, Wis.	452,857	1914, 1916-1918	4	1,817	1,118	2.47	22	.049	2.0	Milwaukee, Wis.
Minneapolis, Minn.	376,504	1915-1918	4	617	713	1.89	25	.064	3.5	Minneapolis, Minn.
Nashville, Tenn.	117,931	1914-1918	5	101	226	1.92	3	.025	1.3	Nashville, Tenn.
Newark, N. J.	410,778	1914-1918	5	875	820	2.00	12	.029	1.5	Newark, N. J.
New Bedford, Mass.	119,952	1914-1918	5	164	161	1.34	4	.033	2.5	New Bedford, Mass.
New Haven, Conn.	161,030	1914-1918	5	185	207	1.29	5	.031	2.4	New Haven, Conn.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

SCARLET FEVER—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
New Orleans, La	384,739	1914-1918	5	95	159	0.41	1	0.003	0.6	New Orleans, La.
New York, N. Y	5,577,154	1914-1918	5	7,503	4,594	.82	136	.024	3.0	New York, N. Y.
Norfolk, Va	113,288	1918	1	70	117	1.03	1	.009	.9	Norfolk, Va.
Oakland, Calif	212,952	1914-1918	5	211	317	1.49	4	.019	1.3	Oakland, Calif.
Omaha, Nebr	188,124	1914, 1916-1918	4	671	258	1.37	6	.032	2.3	Omaha, Nebr.
Paterson, N. J	135,337	1914-1918	5	120	124	.92	0			Paterson, N. J.
Philadelphia, Pa	1,809,039	1914-1918	5	1,506	2,858	1.58	59	.033	2.1	Philadelphia, Pa.
Pittsburgh, Pa	585,397	1914-1918	5	1,406	613	1.05	7	.012	1.1	Pittsburgh, Pa.
Portland, Oreg	255,658	1916-1918	3	400	520	2.03	0			Portland, Oreg.
Providence, R. I	236,912	1914-1918	5	597	539	2.28	11	.046	2.0	Providence, R. I.
Reading, Pa	107,181	1914-1918	5	200	74	.69	2	.019	2.7	Reading, Pa.
Richmond, Va	169,399	1914-1918	5	196	250	1.48	3	.018	1.2	Richmond, Va.
Rochester, N. Y	291,753	1914, 1916-1918	4	675	511	1.75	10	.034	2.0	Rochester, N. Y.
St. Louis, Mo	768,475	1914-1918	5	1,407	783	1.02	18	.023	2.3	St. Louis, Mo.
St. Paul, Minn	233,573	1914-1918	5	825	526	2.25	14	.060	2.7	St. Paul, Minn.
Salt Lake City, Utah	116,805	1914-1918	5	365	105	.90	3	.026	2.9	Salt Lake City, Utah.
San Antonio, Tex	158,043	1915-1918	4	55	22	.14	0			San Antonio, Tex.
San Francisco, Calif	502,053	1914-1918	5	673	411	.82	10	.020	2.4	San Francisco, Calif.
Scranton, Pa	137,375	1914-1918	5	196	203	1.48	2	.015	1.0	Scranton, Pa.
Seattle, Wash	311,611	1914-1918	5	272	601	1.93	6	.019	1.0	Seattle, Wash.
Spokane, Wash	104,435	1916-1918	3	98	411	3.94	7	.067	1.7	Spokane, Wash.
Springfield, Mass	127,470	1914-1918	5	190	176	1.38	3	.024	1.7	Springfield, Mass.
Syracuse, N. Y	169,942	1914-1918	5	356	412	2.42	9	.053	2.2	Syracuse, N. Y.
Toledo, Ohio	239,266	1914-1918	5	640	739	3.09	18	.075	2.4	Toledo, Ohio.
Trenton, N. J	118,132	1914-1918	5	134	47	.40	0			Trenton, N. J.
Washington, D. C	432,086	1914-1918	5	620	665	1.54	3	.007	.5	Washington, D. C.
Wilmington, Del	108,996	1914, 1915, 1917, 1918	4	76	81	.74	0			Wilmington, Del.
Worcester, Mass	178,015	1914, 1916-1918	4	246	272	1.53	4	.022	1.5	Worcester, Mass.
Yonkers, N. Y	99,127	1914, 1916-1918	4	224	90	.91	2	.020	2.2	Yonkers, N. Y.
Youngstown, Ohio	129,613	1916-1918	3	125	225	1.74	1	.008	.4	Youngstown, Ohio.

SMALLPOX.

Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	275	23	0.11	0			Akron, Ohio.
Albany, N. Y	112,670	1914-1918	5	2						Albany, N. Y.
Atlanta, Ga	198,258	1916-1918	3	30	719	3.63	2	0.010	0.3	Atlanta, Ga.

Baltimore, Md	724,796	1914-1918	5	81	18	.02	0			Baltimore, Md.
Birmingham, Ala	175,922	1914-1918	5	237	56	.32	0			Birmingham, Ala.
Boston, Mass	744,070	1914-1918	5	3	14	.02	0			Boston, Mass.
Bridgeport, Conn	141,401	1914-1918	5	(2)						Bridgeport, Conn.
Buffalo, N. Y	502,497	1914-1918	5	25	35	.07	0			Buffalo, N. Y.
Camden, N. J.[1]	115,188	1914-1918	5	2	5	.04				Camden, N. J.[1]
Chicago, Ill	2,675,108	1914-1918	5	142	98	.04	0			Chicago, Ill.
Cincinnati, Ohio	399,308	1914-1918	5	102	138	.35	0			Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914-1918	5	411	289	.37	0			Cleveland, Ohio.
Columbus, Ohio	234,172	1914-1918	5	92	26	.11	1	.004	3.8	Columbus, Ohio.
Dallas, Tex	155,532	1915-1918	4	186	395	2.54				Dallas, Tex.
Dayton, Ohio	150,706	1914-1918	5	53	7	.05	0			Dayton, Ohio.
Denver, Colo	254,271	1914-1918	5	234	567	2.23	0			Denver, Colo.
Des Moines, Iowa	124,403	1916-1918	3	249			0			Des Moines, Iowa.
Detroit, Mich	966,547	1914-1918	5	481	253	.26	2	.002	.8	Detroit, Mich.
Fall River, Mass	120,424				2		2	.017		Fall River, Mass.
Fort Worth, Tex	104,774	1915-1918	4	224	92	.88	1	.010	1.1	Fort Worth, Tex.
Grand Rapids, Mich	136,343	1914-1918	5	88	45	.33	0			Grand Rapids, Mich.
Hartford, Conn	136,021	1914-1918	5	11	107	.79				Hartford, Conn.
Houston, Tex	135,023	1916-1918	3	43	45	.33	2	.015	2.2	Houston, Tex.
Indianapolis, Ind	310,046	1914-1918	5	478	137	.44	0			Indianapolis, Ind.
Jersey City, N. J	296,518	1914-1918	5	1	1		0			Jersey City, N. J.
Kansas City, Kans	100,206	1914, 1917, 1918	3	621	45	.45	0			Kansas City, Kans.
Kansas City, Mo	320,494	1914-1918	5	780	275	.86	2	.006	.7	Kansas City, Mo.
Los Angeles, Calif	563,412	1914-1918	5	47	137	.24				Los Angeles, Calif.
Louisville, Ky	234,326	1914-1918	5	170	18	.08	1	.004	5.6	Louisville, Ky.
Lowell, Mass	112,426	1914-1918	5	1	1	.01	0			Lowell, Mass.
Memphis, Tenn	160,742	1917, 1918	2	344	51	.32	0			Memphis, Tenn.
Milwaukee, Wis	452,857	1914, 1916-1918	4	375	332	.73				Milwaukee, Wis.
Minneapolis, Minn	376,504	1915-1918	4	478	530	1.49	2	.005	.4	Minneapolis, Minn.
Nashville, Tenn	117,931	1914-1918	5	102	6	.05	0			Nashville, Tenn.
Newark, N. J	410,778	1914-1918	5	1	1		0			Newark, N. J.
New Bedford, Mass	119,952	1914-1918	5	5	0		0			New Bedford, Mass.
New Orleans, La	384,739	1914-1918	5	144	98	.25	6	.016	6.1	New Orleans, La.
New York, N. Y	5,577,154	1914-1918	5	14	18		0			New York, N. Y.
Norfolk, Va	113,288	1918	1	30	112	.99				Norfolk, Va.
Oakland, Calif	212,952	1914-1918	5	13	66	.31	0			Oakland, Calif.
Omaha, Nebr	188,124	1914, 1916-1918	4	497	907	4.82	0			Omaha, Nebr.
Paterson, N. J	135,337	1914-1918	5	(2)	0		0			Paterson, N. J.
Philadelphia, Pa	1,809,039	1914-1918	5	12	9		0			Philadelphia, Pa.
Pittsburgh, Pa	585,397	1914-1918	5	22	22	.04	0			Pittsburgh, Pa.
Portland, Oreg	255,658	1916-1918	3	84	1,673	6.54	0			Portland, Oreg.
Providence, R. I	236,912	1914-1918	5	1	4	.02	0			Providence, R. I.
Reading, Pa	107,181	1914-1918	5	3	0		0			Reading, Pa.
Richmond, Va	169,399	1914-1918	5	15	8	.05	0			Richmond, Va.
Rochester, N. Y	291,753	1914, 1916-1918	4	(2)	10	.03	0			Rochester, N. Y.
St. Louis, Mo	768,475	1914-1918	5	253	85	.11	0			St. Louis, Mo.
St. Paul, Minn	233,573	1914-1918	5	151	505	2.16	0			St. Paul, Minn.
Salt Lake City, Utah	116,805	1914-1918	5	235	167	1.43	1	.009	.6	Salt Lake City, Utah.
San Antonio, Tex	158,043	1915-1918	4	128	27	.17	0			San Antonio, Tex.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

[2] Average less than 1.

Reported Prevalence for the Year 1919—Averages for Previous Years—Continued.

SMALLPOX—Continued.

City.	Estimated population, July 1, 1919.	Average.			1919.					City.
		Years included.	Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
San Francisco, Calif.	502,053	1914-1918	5	58	210	0.42	1	0.002	0.5	San Francisco, Calif.
Scranton, Pa.	137,375	1914-1918	5	(2)	2	.01				Scranton, Pa.
Seattle, Wash.	311,611	1914-1918	5	102	869	2.79	1	.003	.1	Seattle, Wash.
Spokane, Wash.	104,435	1916-1918	3	227	619	5.93	0			Spokane, Wash.
Springfield, Mass.	127,470	1914-1918	5	(2)	3	.02	0			Springfield, Mass.
Syracuse, N. Y.	169,942	1914-1918	5	1	0		0			Syracuse, N. Y.
Toledo, Ohio	239,266	1914-1918	5	228	125	.52				Toledo, Ohio.
Washington, D. C.	432,086	1914-1918	5	46	173	.40	0			Washington, D. C.
Wilmington, Del.	108,996	1914, 1915, 1917, 1918	4	(2)	1	.01				Wilmington, Del.
Worcester, Mass.	178,015	1914, 1916-1918	4	10						Worcester, Mass.
Yonkers, N. Y.	99,127	1914, 1916-1918	4	(2)						Yonkers, N. Y.
Youngstown, Ohio	129,613	1916-1918	3	172	406	3.13	2	.015	.5	Youngstown, Ohio.

TYPHOID FEVER.

Akron, Ohio	201,257	1914, 1915, 1917, 1918	4	105	58	0.29	17	0.08	29.3	Akron, Ohio.
Albany, N. Y.	112,670	1914-1918	5	98	45	.40	9	.08	20.0	Albany, N. Y.
Atlanta, Ga.	198,258	1916-1918	3	119	98	.49	20	.10	20.4	Atlanta, Ga.
Baltimore, Md.	724,796	1914-1918	5	663	359	.50	60	.08	16.7	Baltimore, Md.
Birmingham, Ala.	175,922	1914-1918	5	580	162	.92	31	.18	19.1	Birmingham, Ala.
Boston, Mass.	744,070	1914-1918	5	267	120	.16	18	.02	15.0	Boston, Mass.
Bridgeport, Conn.	141,401	1914-1918	5	32	23	.16	5	.04	21.7	Bridgeport, Conn.
Buffalo, N. Y.	502,497	1914-1918	5	241	88	.18	34	.07	38.6	Buffalo, N. Y.
Cambridge, Mass.	109,444	1917, 1918	2	28	14	.13	2	.02	14.3	Cambridge, Mass.
Camden, N. J.[1]	115,188	1914-1918	5	59	30	.26	3	.03	10.0	Camden, N. J.[1]
Chicago, Ill.	2,675,108	1914-1918	5	762	232	.09	31	.01	13.4	Chicago, Ill.
Cincinnati, Ohio	399,308	1914-1918	5	132	56	.14	11	.03	19.6	Cincinnati, Ohio.
Cleveland, Ohio	784,673	1914-1918	5	228	86	.11	21	.03	24.4	Cleveland, Ohio.
Columbus, Ohio	234,172	1914-1918	5	117	162	.69	7	.03	4.3	Columbus, Ohio.
Dallas, Tex.	155,532	1915-1918	4	112	80	.51	17	.11	21.2	Dallas, Tex.
Dayton, Ohio	150,706	1914-1918	5	93	44	.29	6	.04	13.6	Dayton, Ohio.
Denver, Colo.	254,271	1914-1918	5	133	62	.24	9	.04	14.5	Denver, Colo.
Des Moines, Iowa	124,403	1918	1	45			8	.06		Des Moines, Iowa.
Detroit, Mich.	966,547	1914-1918	5	423	260	.27	49	.05	18.8	Detroit, Mich.

Fall River, Mass.	120,424	1914-1918	5	189	68	.56	4	.03	5.9	Fall River, Mass.
Fort Worth, Tex.	104,774	1916, 1917	2	106	24	.23	18	.17	75.0	Fort Worth, Tex.
Grand Rapids, Mich.	136,343	1914-1918	5	120	19	.14	7	.05	36.8	Grand Rapids, Mich.
Hartford, Conn.	136,021	1914-1918	5	91	23	.17	1	.01	4.3	Hartford, Conn.
Houston, Tex.	125,023	1916-1918	3	75	.....	.....	19	.14	.....	Houston, Tex.
Indianapolis, Ind.	310,046	1914-1918	5	316	56	.18	14	.05	25.0	Indianapolis, Ind.
Jersey City, N. J.	296,518	1914-1918	5	49	35	.12	7	.02	20.0	Jersey City, N. J.
Kansas City, Kans.	100,206	1914, 1917, 1918	3	64	.....	.....	9	.09	.....	Kansas City, Kans.
Kansas City, Mo.	320,494	1914-1918	5	95	62	.19	36	.11	58.1	Kansas City, Mo.
Los Angeles, Calif.	563,412	1914-1918	5	185	205	.36	28	.05	13.7	Los Angeles, Calif.
Louisville, Ky.	234,326	1914-1918	5	148	192	.82	22	.09	11.5	Louisville, Ky.
Lowell, Mass.	112,426	1914-1918	5	63	31	.28	4	.04	12.9	Lowell, Mass.
Memphis, Tenn.	160,742	1917-1918	2	183	489	3.04	89	.55	18.2	Memphis, Tenn.
Milwaukee, Wis.	452,857	1914, 1916-1917	4	206	47	.10	16	.04	34.0	Milwaukee, Wis.
Minneapolis, Minn.	376,504	1915-1918	4	174	49	.13	12	.03	24.5	Minneapolis, Minn.
Nashville, Tenn.	117,931	1914-1918	5	321	131	1.11	19	.16	14.5	Nashville, Tenn.
Newark, N. J.	410,778	1914-1917	4	146	72	.18	9	.02	12.5	Newark, N. J.
New Bedford, Mass.	119,952	1914-1918	5	97	17	.14	2	.02	11.8	New Bedford, Mass.
New Haven, Conn.	161,030	1914-1918	5	94	77	.48	9	.06	11.7	New Haven, Conn.
New Orleans, La.	384,739	1914-1918	5	310	159	.41	53	.14	33.3	New Orleans, La.
New York, N. Y.	5,577,151	1914-1918	5	1,802	854	.15	121	.02	14.2	New York, N. Y.
Norfolk, Va.	113,288	1918	1	32	93	.82	17	.15	18.3	Norfolk, Va.
Oakland, Calif.	212,952	1914-1918	5	98	42	.20	7	.03	16.7	Oakland, Calif.
Omaha, Nebr.	188,124	1914, 1916, 1917	3	32	34	.18	8	.04	23.5	Omaha, Nebr.
Paterson, N. J.	135,337	1914-1918	5	43	31	.23	4	.03	12.9	Paterson, N. J.
Philadelphia, Pa.	1,809,039	1914-1918	5	666	548	.30	79	.04	14.4	Philadelphia, Pa.
Pittsburgh, Pa.	585,397	1914-1918	5	291	91	.16	37	.06	40.7	Pittsburgh, Pa.
Portland, Oreg.	255,658	1916-1918	3	65	47	.18	12	.05	25.5	Portland, Oreg.
Providence, R. I.	236,912	1914-1918	5	164	60	.25	9	.04	15.0	Providence, R. I.
Reading, Pa.	107,181	1914-1918	5	127	60	.56	7	.07	11.7	Reading, Pa.
Richmond, Va.	169,399	1914-1918	5	147	86	.51	6	.04	7.0	Richmond, Va.
Rochester, N. Y.	291,753	1914, 1916-1918	4	72	50	.17	10	.03	20.0	Rochester, N. Y.
St. Louis, Mo.	768,475	1914-1918	5	444	209	.27	46	.06	22.0	St. Louis, Mo.
St. Paul, Minn.	233,573	1914-1918	5	91	41	.18	8	.03	19.5	St. Paul, Minn.
Salt Lake City, Utah	116,805	1914-1918	5	119	31	.27	7	.06	22.6	Salt Lake City, Utah.
San Antonio, Tex.	158,043	1915-1918	4	143	39	.25	18	.11	46.2	San Antonio, Tex.
San Francisco, Calif.	502,053	1914-1918	5	188	70	.14	16	.03	22.9	San Francisco, Calif.
Scranton, Pa.	137,375	1914-1918	5	40	11	.03	2	.01	18.2	Scranton, Pa.
Seattle, Wash.	311,611	1914-1918	5	69	30	.10	9	.03	30.0	Seattle, Wash.
Spokane, Wash.	104,135	1916-1918	3	51	19	.18	0	.....	.....	Spokane, Wash.
Springfield, Mass.	127,470	1914-1918	5	45	22	.17	6	.05	27.3	Springfield, Mass.
Syracuse, N. Y.	169,942	1914-1918	5	55	37	.22	11	.06	29.7	Syracuse, N. Y.
Toledo, Ohio.	239,266	1914-1918	5	250	58	.24	10	.04	17.2	Toledo, Ohio.
Trenton, N. J.	118,132	1914-1918	5	58	37	.31	7	.06	18.9	Trenton, N. J.
Washington, D. C.	432,086	1914-1918	5	313	153	.35	16	.04	10.5	Washington, D. C.
Wilmington, Del.	108,996	1914, 1915, 1917, 1918	4	152	31	.28	14	.13	45.2	Wilmington, Del.
Worcester, Mass.	178,015	1914, 1916-1918	4	49	49	.28	5	.03	10.2	Worcester, Mass.
Yonkers, N. Y.	99,127	1914, 1916-1918	4	18	11	.11	1	.01	9.1	Yonkers, N. Y.
Youngstown, Ohio	129,613	1916-1918	3	92	41	.32	21	.16	51.2	Youngstown, Ohio.

[1] Fiscal year, Dec. 15, 1918, to Dec. 15, 1919.

[2] Average less than 1.

DEFEAT OF ANTIVACCINATION AND ANTIVIVISECTION MEASURES ON THE PACIFIC COAST.

Two initiative measures—the antivaccination constitutional amendment and the proposed antivivisection act—both menacing the public health, were defeated by the people of California at the election last November.

The antivaccination amendment declared that "No form of vaccination, inoculation, or other medication shall hereafter be made a condition for admission to or attendance in any public school, college, university, or other educational institution in this State, or for the employment of any person in any public office. The provisions of this section shall not be controlled or limited by any other provision of this constitution." This measure was actively opposed by the universities, medical schools, the State tuberculosis society, State and city boards of health, and many other influential organizations, as well as by the practicing physicians throughout the State.

The votes on these measures were as follows:

	Yes.	*No.*
Antivaccination	359,987	468,911
Antivivisection	272,288	527,130

A proposed constitutional amendment abolishing compulsory vaccination, similar to the California measure, was defeated in Oregon by a vote of 2 to 1, the final count being 63,028 for and 127,238 against.

This decisive vote is interesting in view of the fact that the proposed amendment was much more far-sweeping than a similar measure voted on four years ago, which was defeated by only 400 votes.

A vigorous campaign against the amendment was carried on by a joint committee of physicians and laymen.

PUBLIC HEALTH ENGINEERING ABSTRACTS.

Hardness of surface waters of the United States.—W. D. Collins, U. S. Geological Survey, *Journal of Industrial and Engineering Chemistry*, Vol. 12, No. 12, December, 1920, pp. 1181–1183.

The results of water analyses made by the United States Geological Survey in a general study of surface waters in the country are given in the table following.

Dissolved solids and hardness of surface waters, by States.

[Parts per million.]

State.	Dissolved solids.	Hardness as $CaCO_3$ equivalent to Ca and Mg.	Notes.
Alabama	70-90	15-40	
Arizona	500-700	200-300	100-150 Na.
Arkansas	600	200	150 Na.
California:			
Northern part	80-250	40-200	
Southern part	400-600	200-300	100 Na.
Great Basin drainage	200-200000	60-5000	Higher concentrations practically all Na salts.
Colorado	150-700	100-400	
Connecticut	50-100	25-50	
Delaware	80	40	
District of Columbia	100	40	
Florida	150	100	
Georgia	60-80	15-40	
Idaho	100-200	60-125	
Illinois	250-300	200-250	
Indiana	250-350	200-300	
Iowa	225-300	190-230	
Kansas:			
Drainage to Missouri River.	350-550	225-350	High in Na salts.
Drainage to Arkansas River.	400, 1000-2000	250, 500-800	Do.
Kentucky	100	70	
Louisiana	500	255	
Maine	20-50	5-20	
Maryland	100-150	50-75	
Massachusetts	50-60	15-25	
Michigan	250	200	
Minnesota:			
Northern	100-150	70-100	
Central and southern	250-500	200-350	
Mississippi	70-90	15-40	
Missouri	350	200	
Montana	300-600	200-300	
Nebraska	300-500	150-300	
Nevada:			
Mountainous area	100-200	30-100	
Lowland area	2000-30000	200-300	Do.
New Hampshire	20-50	5-20	
New Jersey	100-150	50-100	
New Mexico	500-3000	250-1500	
New York	100-150	50-100	
North Carolina	60-80	15-40	
North Dakota	300-800	200-600	
Ohio	250-350	200-300	
Oklahoma	1000-3000	500-1500	High Na.
Oregon	80-125	40-60	
Pennsylvania	100-150	50-100	Acid waters at some places; less in western part.
Rhode Island	30-50	5-25	
South Carolina	70-90	15-40	
South Dakota	300-800	200-600	
Tennessee	100	70	
Texas	300, 1000-2000	200, 500-1500	High in Na.
Utah	500-1000	200-300	100-250 Na.
Vermont	30-50	5-25	
Virginia	70-90	15-40	
Washington	60-125	20-60	
West Virginia	100-150	70-100	
Wisconsin	100	50	
Wyoming:			
Mountainous area	200	150	
Lowland area	800-1000	500-600	

Soft surface water is found along the Atlantic, east Gulf of Mexico, and Pacific coasts, and along the northern boundary States. Hard water is found in the middle Western States bordering the Mississippi and to the east. Hard and strongly alkaline water is found in the area outlined roughly by North Dakota, Arkansas, Louisiana, Texas, Arizona, and the southern part of California.

The disposal of trade wastes.—Robert Spurr Weston, Consulting Engineer, Boston, Mass.—*Public Works*, Vol. 49, No. 22, November 27, 1920, p. 504.

In the disposal of trade wastes the following factors should be considered: (1) Excess amounts of suspended matter; (2) suspended matter which may clog sewers; (3) excess amounts of fat and organic matter; (4) presence of mineral oil; (5) free acid; (6) presence of bacterial poisons; (7) the presence of acids resulting from the formation of carbohydrates.

At Peabody, Mass., excessive amounts of waste from tanneries, glue factories, etc., were discharged into a pump well, thence through an outfall to deep tidal water. The accumulation of suspended matter in the tank, such as spent lime, hair, strips of hide, etc., was remedied by requiring the industries to submit their wastes to subsidence before discharge into the sewer. In the more difficult cases the Dorr clarifier was used successfully to separate the suspended matter.

Wool-scouring waste is a good example of waste containing excessive amounts of fat. At Hudson, Mass., this waste was first treated in tanks of sulphuric acid. This method was found to be undesirable, owing to the formation of acid odors. Instead, the heated and settled waste was put through centrifugal machines. This process removes 50 per cent of the fats as against 95 per cent removed by the acid process.

The disposal of a paraffin-like material from fuel oils has not as yet become a difficult problem, although it causes clogging in the sewers.

Wastes from tanneries using arsenic and sewages containing free chlorine and copper salts can not be purified by bacterial action, according to experiments by Prof. C.-E. A. Winslow at New Haven. The best process used with sewage of this kind is the Miles acid process.

Experiments by Pearse and Greeley on the treatment of waste produced in the manufacture of sugar show that successive applications with lime followed by filtration in each case will render the waste suitable for discharge. No successful treatment has been worked out for taking care of waste from the manufacture of lactic acid.

In designing sewerage systems it is well to consider the industries which the system is to serve; each trade waste in itself being a problem. Although the recovery of valuable products from water-borne waste will never be a profitable business, it will minimize the cost of disposal and at the same time conserve the by-products.

Short course for water-plant operators.—V. M. Ehlers, State Sanitary Engineer, Austin, Tex., December 4, 1920.

At the request of the Texas Water Works Association, the University of Texas and the State board of health are to conduct, without charge, their second practical course of instruction on the subject of "Safe water production." This course is for municipal waterworks attendants and filter-plant operators and is to be given at Austin during the week beginning January 10, 1921. Besides the fundamental analyses required for chemical and bacteriological control of a water-treatment plant, the course will include lectures on the construction and operation of different types of purification plants and water-sterilizing apparatus, protection of water supplies, management of waterworks, and discussion of operator's individual problems. The course will include the operation of filters, liquid-chlorine apparatus, and water-softening plants.

DEATHS DURING WEEK ENDED DEC. 4, 1920.

[From the "Weekly Health Index," Dec. 7, 1920, issued by the Bureau of the Census, Department of Commerce.]

Deaths from all causes in certain large cities of the United States during the week ended Dec. 4, 1920, infant mortality (per cent), annual death rate, and comparison with corresponding week of preceding years.

City.	Population Jan. 1, 1920, subject to revision.	Week ended Dec. 4, 1920.		Average annual death rate per 1,000.[2]	Per cent of deaths under 1 year.	
		Total deaths.	Death rate.[1]		Week ended Dec. 4, 1920.	Previous year or years.[2]
Akron, Ohio	208,435	38	9.5	[3] 8.2	10.5	[3] 16.0
Albany, N. Y.	113,344	26	12.0	C 19.0	3.8	C 7.3
Atlanta, Ga.	200,616	70	18.2	C 16.8	17.1	C 20.3
Baltimore, Md.	733,826	215	15.3	A 16.0	16.3	A 14.5
Birmingham, Ala.	178,270	58	17.0	A 18.3	17.2	A 14.6
Boston, Mass.	747,923	207	14.4	A 16.8	14.5	A 14.5
Bridgeport, Conn.	143,152	39	14.2	A 12.6	10.3	A 13.9
Buffalo, N. Y.	506,775	116	11.9	C 17.1	19.0	C 13.9
Cambridge, Mass.	109,456	26	12.4	A 13.6	3.8	A 16.5
Chicago, Ill.	2,701,705	587	11.3	A 13.1	14.0	A 15.3
Cincinnati, Ohio	401,247	111	14.4	C 17.2	9.0	C 9.1
Cleveland, Ohio	796,836	189	12.4	C 11.5	15.3	C 19.7
Columbus, Ohio	237,031	63	13.9	C 15.4	9.5	C 7.2
Dallas, Tex.	158,976	45	14.8	A 10.6	15.6	A 6.2
Dayton, Ohio	153,830	31	10.5	C 10.0	19.4	C 20.7
Denver, Colo.	256,491	73	14.8	A 15.0	5.5	.....
Detroit, Mich.	993,739	227	11.9	.....	19.4	.....
Fall River, Mass.	120,485	40	17.3	C 11.7	35.0	C 14.8
Grand Rapids, Mich.	137,634	25	9.5	C 13.4	28.0	C 5.7
Hartford, Conn.	138,036	47	17.8	.....	27.7	.....
Houston, Tex.	138,276	20	7.5	.....	10.0	.....
Indianapolis, Ind.	314,194	76	12.6	C 13.1	7.9	C 9.0
Jersey City, N. J.	298,079	72	12.6	C 12.8	12.5	C 17.8
Kansas City, Kans.	101,177	32	16.5	.....	12.5	.....
Kansas City, Mo.	324,410	113	18.2	C 14.0	15.0	C 9.3
Los Angeles, Calif.	576,673	164	14.8	A 13.7	7.9	A 9.5
Louisville, Ky.	234,891	62	13.8	C 16.7	14.5	C 13.3
Lowell, Mass.	112,479	29	13.4	A 18.1	24.1	A 20.5
Memphis, Tenn.	162,351	71	22.8	C 22.3	8.5	C 10.9
Milwaukee, Wis.	457,147	83	9.5	A 12.1	19.3	A 21.1

[1] Annual rates per 1,000 population.
[2] "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1919.
[3] Data are based on statistics of 1915, 1916, and 1917.

Deaths from all causes in certain large cities of the United States during the week ended Dec. 4, 1920, infant mortality (per cent), annual death rate, and comparison with corresponding week of preceding years—Continued.

City.	Population Jan. 1, 1920, subject to revision.	Week ended Dec. 4, 1920.		Average annual death rate per 1,000.	Per cent of deaths under 1 year.	
		Total deaths.	Death rate.		Week ended Dec. 4, 1920.	Previous year or years.
Minneapolis, Minn	380,582	79	10.8	C 11.9	12.7	C 17.4
Nashville, Tenn	118,342	30	13.2	C 15.9	16.7	C 11.1
Newark, N. J	414,216	93	11.7	C 12.3	20.4	C 16.5
New Bedford, Mass	121,217	32	13.8	A 15.2	18.8	A 25.0
New Haven, Conn	162,519	53	17.0	C 11.0	17.0	C 14.7
New Orleans, La	387,219	140	18.9	A 21.6	6.4	A 12.7
New York, N. Y	5,620,048	1,280	11.9	C 11.5	14.6	C 13.5
Norfolk, Va	115,777	29	13.1	.....	31.0	.....
Oakland, Calif	216,361	54	13.0	A 12.1	5.6	A 10.2
Omaha, Nebr	191,601	37	10.1	C 7.1	10.8	C 26.9
Philadelphia, Pa	1,823,158	497	14.2	[3] 18.0	13.3	[3] 12.4
Pittsburgh, Pa	588,193	146	12.9	C 15.1	17.8	C 15.3
Portland, Oreg	258,288	49	9.9	C 10.8	4.1	C 5.7
Providence, R. I	237,595	56	12.3	C 12.1	1.8	C 14.5
Richmond, Va	171,667	48	14.6	C 15.4	14.6	C 10.0
Rochester, N. Y	295,750	54	9.5	C 13.4	14.8	C 13.3
St. Louis, Mo	772,897	189	12.8	C 14.1	7.9	C 7.7
St. Paul, Minn	234,680	48	10.7	C 12.3	14.6	C 9.1
Salt Lake City, Utah	118,110	29	12.8	A 15.7	17.2	.....
San Francisco, Calif	506,676	128	13.2	C 16.0	2.3	C 6.5
Seattle, Wash	315,652	58	9.6	A 10.8	8.6	A 8.7
Springfield, Mass	129,338	33	13.3	.....	12.1	.....
Syracuse, N. Y	171,647	42	12.8	C 17.2	21.4	C 23.2
Toledo, Ohio	243,164	61	13.1	A 14.0	14.8	A 14.2
Trenton, N. J	119,289	21	9.2	A 23.0	19.0	A 16.7
Washington, D. C	437,571	125	14.9	A 16.4	8.0	A 9.3
Wilmington, Del	110,168	30	14.2	C 12.4	30.0	.....
Worcester, Mass	179,754	45	13.1	C 16.7	2.2	C 12.3
Yonkers, N. Y	100,176	20	10.4	A 14.9	10.0	A 14.8
Youngstown, Ohio	132,358	34	13.4	.....	14.7	.....

[3] Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended Dec. 4, 1920.

Policies in force	45,377,106
Number of death claims	8,298
Death claims per 1,000 policies in force, annual rate	9.5

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Dec. 11, 1920.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.

	Cases.
Chicken pox	37
Diphtheria	22
Hookworm	38
Influenza	5
Mumps	14
Paratyphoid fever	1
Pellagra	1
Pneumonia	3
Poliomyelitis	1
Scarlet fever	7
Smallpox	43
Tuberculosis	7
Typhoid fever	16

ARKANSAS.

Chicken pox	35
Diphtheria	47
Influenza	78
Malaria	98
Measles	152
Pellagra	5
Scarlet fever	18
Smallpox	1
Trachoma	3
Tuberculosis	14
Typhoid fever	15
Whooping cough	42

CALIFORNIA.

Cerebrospinal meningitis:	
Oakland	1
Visalia	1
Influenza	18
Poliomyelitis:	
Los Angeles County	1
San Diego	1
Smallpox:	
Richmond	9
Sacramento	10
San Francisco	30
Scattering	59
Typhoid fever	9

DELAWARE.

	Cases.
Chicken pox	4
Diphtheria	5
Influenza	9
Measles	3
Mumps	2
Ophthalmia neonatorium	1
Pneumonia	5
Scarlet fever	8
Tuberculosis	12
Typhoid fever	6
Whooping cough	16

FLORIDA.

Cerebrospinal meningitis	1
Diphtheria	30
Influenza	6
Malaria	11
Pneumonia	3
Poliomyelitis	1
Scarlet fever	7
Smallpox	15
Typhoid fever	9

GEORGIA.

Anthrax	1
Chicken pox	15
Conjunctivitis (acute infectious)	1
Diphtheria	25
Dysentery (amebic)	1
Dysentery (bacillary)	2
Hookworm	79
Influenza	45
Malaria	31
Measles	23
Mumps	1
Pneumonia	12
Scarlet fever	10
Septic sore throat	4
Smallpox	20
Tuberculosis (all forms)	11
Typhoid fever	11
Typhus fever	1
Whooping cough	4

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Dec. 11, 1920—Continued.

ILLINOIS.

	Cases.
Cerebrospinal meningitis:	
Chicago	1
Macoupin County—	
Shaw Point	1
Diphtheria:	
Chicago	336
Evanston	9
Scattering	107
Influenza	22
Pneumonia	207
Poliomyelitis:	
Chicago	1
Madison County—	
Olive Township	1
Rock Island County—	
Bowling Township	1
Sangamon County—	
Cotton Hill Township	1
Scarlet fever:	
Chicago	147
Oak Park	10
Springfield	69
Scattering	150
Smallpox:	
East St. Louis	9
Jackson County—	
Sandridge Township	32
Olney	14
Rockford	9
Springfield	13
Streator	32
Virginia	19
Scattering	96
Typhoid fever	15

INDIANA.

Diphtheria	84
Poliomyelitis—Vanderburg County	1
Scarlet fever	202
Smallpox	225
Typhoid fever	18

IOWA.

Anthrax—Colfax	2
Diphtheria	78
Poliomyelitis:	
Bedford	1
Mapleton	1
Scarlet fever	192
Smallpox:	
Clinton	10
Davenport	13
Dubuque	76
Gilmore City	13
Ottumwa	44
Oxford Junction	15
Shenandoah	19
Scattering	94

KANSAS.

Chicken pox	67
Diphtheria	225
German measles	1

KANSAS—continued.

	Cases.
Influenza	5
Malaria	1
Measles	25
Mumps	2
Pneumonia	33
Scarlet fever	187
Smallpox	62
Tetanus	1
Tuberculosis	27
Typhoid fever	11
Whooping cough	29

LOUISIANA.

Diphtheria	22
Scarlet fever	16
Smallpox	62
Typhoid fever	11

MAINE.

Cerebrospinal meningitis	1
Chicken pox	47
Diphtheria	40
German measles	1
Influenza	3
Measles	133
Mumps	3
Pneumonia	5
Scarlet fever	33
Smallpox	3
Trachoma	1
Tuberculosis	6
Typhoid fever	10
Whooping cough	16

MARYLAND.[1]

Cerebrospinal meningitis	2
Chicken pox	95
Diphtheria	98
Dysentery	2
Influenza	45
Lethargic encephalitis	1
Malaria	2
Measles	93
Meningitis	1
Mumps	14
Ophthalmia neonatorum	5
Pneumonia (all forms)	59
Poliomyelitis	1
Scarlet fever	77
Septic sore throat	2
Smallpox	4
Trachoma	3
Tuberculosis	44
Typhoid fever	29
Whooping cough	61

MASSACHUSETTS.

Cerebrospinal meningitis	3
Chicken pox	339
Conjunctivitis (suppurative)	5
Diphtheria	210
German measles	9

[1] Week ended Friday.

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Dec. 11, 1920—Continued.

MASSACHUSETTS—continued.

	Cases.
Influenza	14
Measles	439
Mumps	52
Ophthalmia neonatorum	28
Pellagra	1
Pneumonia (lobar)	86
Poliomyelitis	12
Scarlet fever	196
Septic sore throat	3
Trachoma	1
Tuberculosis (all forms)	163
Typhoid fever	7
Whooping cough	134

MINNESOTA.

Poliomyelitis	3
Smallpox:	
Norman County—Flom Township	8
Scattering	29

MISSISSIPPI.

Diphtheria	28
Scarlet fever	25
Smallpox	11
Typhoid fever	9

MONTANA.

Diphtheria	3
Scarlet fever	9
Smallpox	22

NEBRASKA

Chicken pox	49
Diphtheria:	
Omaha	15
Scattering	14
Influenza	1
Measles	16
Mumps	1
Scarlet fever:	
Chadron	14
York	13
Scattering	38
Smallpox:	
Brunswick	16
Chadron	17
Omaha	9
Seward County	17
Scattering	37
Tuberculosis	2
Typhoid fever	1
Whooping cough	15

NEW JERSEY.

Chicken pox	188
Diphtheria	273
Influenza	29
Malaria	2
Measles	99
Pneumonia	100
Poliomyelitis	1
Scarlet fever	150
Typhoid fever	11
Whooping cough	148

NEW MEXICO.

	Cases.
Chicken pox	6
Conjunctivitis	4
Diphtheria:	
Bernalillo County	9
Scattering	20
Influenza	2
Measles:	
Bernalillo County	13
Scattering	9
Mumps	5
Pneumonia	8
Scarlet fever	8
Tuberculosis:	
Grant County	16
Scattering	9
Typhoid fever	6
Whooping cough	21

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis:	
Lakewood	1
Oneonta	1
Ridgeway	1
Diphtheria	474
Influenza	50
Lethargic encephalitis	1
Measles	1,022
Pneumonia	270
Poliomyelitis:	
Eaton	1
Poughkeepsie	1
Scarlet fever	341
Smallpox	1
Typhoid fever	27
Whooping cough	542

NORTH CAROLINA.

Cerebrospinal meningitis	2
Chicken pox	90
Diphtheria	97
German measles	2
Measles	90
Scarlet fever	44
Septic sore throat	6
Smallpox	34
Trachoma	1
Typhoid fever	12
Whooping cough	127

OHIO.

Smallpox present:	
Allen County	
Fayette County	
Lake County	
Licking County	
Pike County	
Williams County	

SOUTH DAKOTA.

Chicken pox	6
Diphtheria	22
Influenza	3

CURRENT STATE SUMMARIES—Continued.

Telegraphic Reports for Week Ended Dec. 11, 1920—Continued.

SOUTH DAKOTA—continued.

	Cases.
Measles	6
Pneumonia	14
Scarlet fever	33
Smallpox	45
Tuberculosis	7
Whooping cough	6

TEXAS.

Cerebrospinal meningitis	1
Chicken pox	32
Diphtheria	140
Dysentery	2
Influenza	35
Measles:	
McAllen	25
San Diego	20
Scattering	12
Poliomyelitis—Edgewood	1
Scarlet fever	82
Smallpox	20
Trachoma	17
Typhoid fever	12

VERMONT.

Cerebrospinal meningitis	1
Chicken pox	51
Diphtheria	4
Influenza	9
Measles	16
Mumps	20
Pneumonia	6
Scarlet fever	18
Smallpox	4
Typhoid fever	2
Whooping cough	38

VIRGINIA.

	Cases.
Smallpox—Bedford County	1

WASHINGTON.

Chicken pox	81
Diphtheria	38
Influenza	5
Measles	27
Mumps	6
Pneumonia	1
Scarlet fever	43
Smallpox	93
Tuberculosis	9
Typhoid fever	2
Whooping cough	17

WISCONSIN.

Milwaukee:	
Cerebrospinal meningitis	2
Chicken pox	39
Diphtheria	85
Measles	8
Scarlet fever	40
Smallpox	8
Tuberculosis	17
Whooping cough	13
Scattering:	
Cerebrospinal meningitis	1
Chicken pox	112
Diphtheria	77
German measles	3
Influenza	39
Measles	79
Scarlet fever	153
Smallpox	184
Trachoma	2
Tuberculosis	14
Typhoid fever	3
Whooping cough	121

District of Columbia and Kentucky Reports for Week Ended Dec. 4, 1920.

DISTRICT OF COLUMBIA.

	Cases.
Cerebrospinal meningitis	1
Chicken pox	38
Diphtheria	13
Influenza	4
Lethargic encephalitis	1
Measles	13
Scarlet fever	18
Tuberculosis	18
Typhoid fever	5
Whooping cough	18

KENTUCKY.

	Cases.
Cerebrospinal meningitis—Ballard County	1
Chicken pox	56
Diphtheria:	
Christian County	9
Jefferson County	31
Scattering	63
Influenza	34
Measles	8
Mumps	5
Pneumonia	46
Scarlet fever:	
Jefferson County	14
Scattering	34
Septic sore throat	4
Smallpox:	
Ohio County	21
Scattering	26
Tonsillitis	14
Trachoma	4
Tuberculosis:	
Jefferson County	11
Scattering	8
Typhoid fever	17
Whooping cough	20

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1920.										
Colorado (October)	1	155	30	.....	128	.....	.....	89	139	66
Florida (November	1	94	25	133	3	13	.....	23	24	26
Illinois (October)	17	1,918	186	124	495	2	69	1,375	346	240
Ohio (October)	9	1,591	40	7	158	1	11	1,279	435	674
Vermont (November)	.....	27	.....	.....	43	.....	.....	64	26	14
Virginia (October)	17	963	.....	521	319	11	7	315	85	221
Wisconsin (November)	11	728	95	.....	377	.....	15	607	573	39

ACTINOMYCOSIS.

Illinois—October, 1920.

During October, 1920, one case of actinomycosis was reported in Illinois.

CEREBROSPINAL MENINGITIS.

City Reports for Week Ended Nov. 27, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place.	Average cases.	1920		Place.	Average cases.	1920	
		Cases.	Deaths.			Cases.	Deaths.
California:				Montana:			
San Francisco	0	1	1	Billings	(1)	1	1
Connecticut:				New York:			
Bridgeport	0	1	.....	Auburn	0	.....	1
Illinois:				New York	3	6	2
Chicago	1	2	.....	North Carolina:			
Rock Island	0	1	.....	Greensboro	0	.....	1
Indiana:				Ohio:			
Evansville	0	1	.....	Cleveland	(1)	2	.....
Kentucky:				Newark	.....	.....	1
Louisville	0	1	1	Pennsylvania:			
Louisiana:				Philadelphia	1	1	.....
New Orleans	0	1	1	South Carolina:			
Maryland:				Spartanburg	0	1	1
Baltimore	(1)	1	1	Virginia:			
Massachusetts:				Alexandria	.....	.....	1
Lowell	(1)	1	.....	Wisconsin:			
Michigan:				Green Bay	(1)	1	1
Highland Park	0	1	1	Milwaukee	1	1	1
Minnesota:				Sheboygan	.....	1	.....
Mankato	.....	1	1				
Missouri:							
St. Louis	(1)	1	1				

[1] Average less than 1.

DENGUE.

Savannah, Ga.—Week Ended Nov. 27, 1920.

During the week ended November 27, 1920, three cases of dengue were reported at Savannah, Ga.

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 3045; Monthly summaries by States, p. 3049; and Weekly reports from cities, p. 3056.

LEPROSY.

Key West, Fla.—November, 1920.

During November, 1920, a case of leprosy was reported at Key West, Fla., in the person of J. F. W., white, male, aged 24 years.

INFLUENZA.

City Reports for Week Ended Nov. 27, 1920.

Place.	Cases.	Deaths.
Alabama:		
Birmingham		2
Arkansas:		
Little Rock	1	
California:		
Berkeley	1	
Los Angeles	1	
San Francisco	7	1
Santa Cruz	1	
Connecticut:		
Hartford	5	1
Manchester	1	
New Britain	8	
Georgia:		
Atlanta	6	3
Illinois:		
Chicago	39	3
East St. Louis	1	
Indiana:		
Bedford	3	
Kansas:		
Parsons	4	
Louisiana:		
Monroe	1	
Maryland:		
Baltimore	15	2
Cumberland	1	
Massachusetts:		
Cambridge	1	
Fall River	1	1
Quincy	1	
Winthrop	1	
Worcester	1	
Michigan:		
Detroit	4	
Flint		1
Highland Park	1	
Minnesota:		
Mankato	2	
Minneapolis		1
Missouri:		
Joplin	1	
Kansas City	1	2
Missouri—Continued.		
St. Louis	3	
Springfield		2
New Jersey:		
Jersey City	4	
Kearny	1	
Paterson	1	
Trenton	1	1
New York:		
Albany	1	
Binghamton	3	
Buffalo	1	
Cohoes	2	
Jamestown	4	
New York	35	5
Saratoga Springs	1	
Schenectady		1
Ohio:		
Akron	1	
Cincinnati	3	1
Cleveland	5	
Columbus	1	
Norwood	1	
Toledo		1
Rhode Island:		
Providence		1
South Carolina:		
Charleston		1
South Dakota:		
Sioux Falls	2	
Texas:		
Dallas	9	2
Virginia:		
Richmond	1	
Roanoke	3	
West Virginia:		
Fairmont	1	
Wisconsin:		
Eau Claire	1	
Milwaukee	1	

MALARIA.

City Reports for Week Ended Nov. 27, 1920.

Place.	Cases.	Deaths.
Louisiana:		
Monroe	2	2
New Orleans	1	1
Massachusetts:		
Everett	1	
Texas:		
Beaumont		1
Dallas	6	1
Waco	3	1

MEASLES.

See Telegraphic weekly reports from States, p. 3045; Monthly summaries by States p. 3049; and Weekly reports from cities, p. 3056.

PELLAGRA.

City Reports for Week Ended Nov. 27, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Georgia:			South Carolina:		
Atlanta		2	Charleston		1
Kentucky:			Texas:		
Lexington		1	Dallas		1
Louisiana:					
Monroe	1	1			

PLAGUE.

Human Cases of Plague Reported.

Place.	Period covered.	Cases.	Deaths.	Remarks.
Florida:	1920.			
Pensacola	May 31 to Aug. 31	10	4	
	Sept. 1 to Dec. 11	0	0	
Louisiana:	1919.			
New Orleans	Oct. 22 to Dec. 31	12	4	
	1920.			
	Jan. 1 to Apr. 30	0	0	
	May 1 to Aug. 31	7	3	
	Sept. 1 to Dec. 11	0	0	
Texas:				
Beaumont	June 19 to Aug. 20	14	5	
	Aug. 21 to Dec. 11	0	0	
Galveston	June 8 to Nov. 14	17	11	
	Nov. 15 to Dec. 11	0	0	
Port Arthur	July 7	1	1	From Galveston.

Plague-Infected Rodents.

Place.	Period covered.	Rodents found plague infected.
Florida:	1920.	
Pensacola	June 28 to Sept. 19	31
	Sept. 20 to Dec. 11	0
Louisiana:	1919.	
New Orleans	November and December	308
	1920.	
	January to November	269
	December 1 to 6	2
	Dec. 7 to 11	2
Texas:		
Beaumont	July 1 to Oct. 25	123
	Oct. 26 to Dec. 11	0
Galveston	June 21 to Nov. 30	64
	Dec. 1 to 3	1
	Dec. 4	2
	Dec. 5 to 11	0
Port Arthur	Oct. 25	1

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Nov. 27, 1920.

Place.	Cases.	Deaths.
Alabama:		
Birmingham		6
Arizona:		
Tucson		2
Little Rock	3	
California:		
Los Angeles	26	4
Oakland	1	6
Sacramento	2	3
San Diego		1
San Francisco	7	4
Santa Barbara		1
Santa Cruz	1	1
Colorado:		
Colorado Springs	2	
Denver		15
Greeley		2
Pueblo		2
Connecticut:		
Bridgeport		4
Greenwich	2	
Hartford	4	1
Manchester	2	
Meriden	3	3
New Britain	3	3
New Haven		6
Norwalk		1
Delaware:		
Wilmington		3
District of Columbia:		
Washington		11
Georgia:		
Atlanta		6
Brunswick		1
Savannah		1
Illinois:		
Bloomington		1
Chicago	181	56
Danville	3	
Decatur		2
East St. Louis		1
Elgin	3	2
Jacksonville		2
Kewanee		2
Oak Park	4	2
Peoria		2
Rockford	2	
Rock Island	3	1
Springfield		2
Indiana:		
Bedford	1	
Brazil		1
East Chicago		1
Elkhart	1	
Elwood		1
Evansville		2
Fort Wayne		1
Indianapolis		8
Kokomo		1
La Fayette	2	
Logansport		1
South Bend		3
Terre Haute		1
Iowa:		
Council Bluffs		1
Kansas:		
Hutchinson	1	
Kansas City	1	
Parsons	1	
Salina	1	
Wichita	1	2
Kentucky:		
Covington		1
Lexington		1
Louisville	6	9
Paducah	1	
Louisiana:		
New Orleans	1	11
Maine:		
Bangor	1	1
Portland	5	
Sanford	6	1
Baltimore	32	16
Cumberland	5	1
Massachusetts:		
Amesbury	1	
Boston	28	22
Brockton		1
Cambridge	4	1
Chelsea	1	
Clinton	1	
Danvers	1	
Easthampton	1	
Fall River	2	10
Haverhill	6	2
Holyoke	2	1
Leominster	1	1
Lowell	2	4
Lynn	3	2
Medford	2	1
New Bedford		2
Newburyport		2
Newton	1	2
Pittsfield	3	2
Quincy	2	1
Somerville	5	1
Springfield	2	
Taunton		2
Watertown	1	
Winchester		1
Woburn		1
Worcester	6	5
Michigan:		
Ann Arbor	1	1
Benton Harbor	1	
Detroit	62	22
Flint	1	4
Grand Rapids	9	2
Highland Park	3	
Ironwood	1	
Ishpeming	4	2
Kalamazoo	1	1
Marquette	1	
Muskegon	3	1
Pontiac	1	
Port Huron	1	
Saginaw	1	2
Sault Ste. Marie	1	
Minnesota:		
Duluth	1	1
Hibbing	1	2
Minneapolis		4
St. Paul		7
Missouri:		
Cape Girardeau	3	2
Independence		1
Kansas City	13	12
St. Joseph		4
Springfield		2
Montana:		
Billings	1	
Butte	1	3
Great Falls	4	
Missoula		1
Nebraska:		
Omaha		3
Nevada:		
Reno	2	1
New Hampshire:		
Concord		1
Manchester		2
New Jersey:		
Atlantic City	1	
Bayonne	2	
Belleville	5	
Bloomfield	1	
East Orange	2	
Elizabeth		5
Garfield	1	
Gloucester	1	
Hackensack	3	
Harrison	2	
Hoboken	1	2
Irvington	1	
Jersey City	8	
Kearny	3	
Morristown	2	

PNEUMONIA (ALL FORMS)—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

Place.	Cases.	Deaths.
New Jersey—Continued.		
Orange	1	1
Passaic	1	1
Paterson	2	
Perth Amboy		1
Plainfield	1	1
Trenton	8	2
West New York	1	
West Orange	2	1
New Mexico:		
Albuquerque		2
New York:		
Albany	6	
Auburn	1	2
Binghamton	10	1
Buffalo	22	13
Cohoes	1	2
Glens Falls		1
Ithaca	3	
Jamestown	4	
Lackawanna	4	1
Lockport		2
Middletown	1	
Mount Vernon	7	3
Newburgh		1
New York	294	129
Niagara Falls	1	2
Peekskill	1	1
Rochester	8	2
Rome	1	
Saratoga Springs	1	1
Schenectady	3	2
Syracuse	3	2
Troy	1	1
Yonkers	5	3
North Carolina:		
Charlotte		5
Greensboro		1
Rocky Mount		1
Wilmington	1	1
Winston-Salem		1
Ohio:		
Akron	2	
Barberton	2	
Chillicothe		1
Cincinnati		8
Cleveland	18	16
Columbus	2	6
Dayton	1	
East Cleveland	1	1
Ohio—Continued.		
Ironton	2	2
Lancaster		1
Lorain	1	
Mansfield	1	
Middletown		1
Piqua	1	
Sandusky	1	1
Springfield		2
Toledo		2
Oklahoma:		
Oklahoma City	2	3
Tulsa	1	
Oregon:		
Portland		6
Pennsylvania:		
Philadelphia	75	47
Rhode Island:		
Cranston	2	1
Newport		1
Pawtucket		3
Providence		4
South Carolina:		
Charleston		2
Tennessee:		
Memphis		6
Nashville		3
Texas:		
Beaumont		2
Dallas	8	1
El Paso		6
Galveston		1
Temple	1	
Utah:		
Salt Lake City		4
Vermont:		
Rutland		1
Virginia:		
Portsmouth		3
Richmond		7
Roanoke	2	2
West Virginia:		
Wheeling		5
Wisconsin:		
Beloit	1	1
Madison		3
Milwaukee	5	11
Racine		4
Superior		1

POLIOMYELITIS (INFANTILE PARALYSIS).

City Reports for Week Ended Nov. 27, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place.	Average cases.	1920	
		Cases.	Deaths.
Alabama:			
Birmingham	0	1	
Connecticut:			
Danbury		1	1
Iowa:			
Cedar Rapids	0	1	
Massachusetts:			
Amesbury		1	
Beverly	0	1	
Boston	(1)	4	
Haverhill	0	1	
Medford	(2)	1	
Newburyport	(2)	1	1
Michigan:			
Detroit	0	1	
Minnesota:			
St. Paul	0	1	
St. Louis	0	2	
New York:			
New York	(3)	2	1
North Dakota:			
Fargo		1	
Wisconsin:			
Fond du Lac	0	1	

[1] Excluding 1916, an epidemic year, average less than 1.
[2] Average less than 1.
[3] Excluding 1916, an epidemic year.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 3045; Monthly summaries by States, p. 3049; and Weekly reports from cities, p. 3056.

SMALLPOX.

City Reports for Week Ended Nov. 27, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks of the years 1915 to 1919, inclusive. In instances in which the information is not available for the full five years, the average includes from one to four years.

Place.	Average cases.	1920	
		Cases.	Deaths.
Alabama:			
Tuscaloosa	0	1	
California:			
Alameda	0	3	
Berkeley	1	2	
Long Beach	(1)	1	
Los Angeles	1	1	
Oakland	3	3	
Sacramento	0	10	
San Francisco	0	25	
Santa Cruz	0	4	
Colorado:			
Colorado Springs	0	1	
Denver	14	7	
Georgia:			
Atlanta	(1)	1	
Idaho:			
Boise	2	3	
Illinois:			
Bloomington	0	1	
Chicago	2	5	
East St. Louis	0	1	
Oak Park	0	2	
Rockford	0	11	
Indiana:			
Bedford	0	6	
Elkhart		1	
Hammond	0	1	
Huntington	1	2	
Indianapolis	7	4	
Kokomo	4	2	
Marion	0	1	
Mishawaka	0	2	
South Bend	(1)	16	
Terre Haute	0	4	
Iowa:			
Cedar Rapids	(1)	2	
Clinton	0	1	
Council Bluffs	0	1	
Davenport	6	3	
Dubuque	2	7	
Iowa City	0	3	
Marshalltown	11	1	
Mason City	0	1	
Muscatine	(1)	1	
Sioux City	2	12	
Kansas:			
Atchison		1	
Kentucky:			
Louisville	0	1	
Louisiana:			
New Orleans	1	9	2
Maryland:			
Cumberland	0	2	
Michigan:			
Battle Creek	1	24	
Detroit	8	21	
Flint	2	1	
Kalamazoo	(1)	1	
Ludington	0	1	
Muskegon		1	
Sault Ste. Marie	0	4	
Minnesota:			
Duluth	(1)	10	
Mankato	0	2	
Minneapolis	10	86	
St. Paul	16	9	
Winona	(1)	4	
Mississippi:			
Laurel	0	1	
Missouri:			
Kansas City	18	4	
St. Louis	3	2	
Montana:			
Great Falls	0	1	
Missoula	0	8	
Nebraska:			
Omaha	25	9	
Nevada:			
Reno	0	1	
North Carolina:			
Charlotte	0	2	
North Dakota:			
Fargo	4	16	
Grand Forks		3	
Ohio:			
Akron	6	6	
Ashtabula	0	3	
Canton	(1)	2	
Cincinnati	(1)	6	
Cleveland	21	9	
Hamilton	0	4	
Lancaster	0	2	
Lorain	(1)	2	
Middletown	(1)	1	
Springfield	(1)	2	
Steubenville	(1)	2	
Tiffin	0	2	
Oklahoma:			
Tulsa		1	
Oregon:			
Portland	12	8	
Pennsylvania:			
Philadelphia	(1)	1	
South Carolina:			
Charleston	(1)	8	
Tennessee:			
Memphis	1	1	
Nashville	0	6	
Texas:			
Waco	1	1	
Utah:			
Salt Lake City	2	42	
Vermont:			
Burlington		1	
Rutland	0	4	
Virginia:			
Lynchburg	0	1	
Wisconsin:			
Appleton	0	1	
Green Bay	5	1	
Madison	(1)	1	
Milwaukee	5	16	
Sheboygan		46	

[1] Average less than 1.

TETANUS.

City Reports for Week Ended Nov. 27, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Georgia:			New York:		
Savannah		1	New York	1	2
Maryland:			Ohio:		
Baltimore		1	Columbus		1
Massachusetts:					
Springfield		1			

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 3045, and Weekly reports from cities, p. 3056.

TYPHOID FEVER.

City Reports for Week Ended Nov. 27, 1920.

The column headed "Average cases" gives the average number of cases reported during the corresponding weeks o the years 1915 to 1919, inclusive. In instances in which the information i not available for the full five years, the average includes from one to four years.

Place.	Average cases.	1920		Place.	Average cases.	1920	
		Cases.	Deaths.			Cases.	Deaths
Alabama:				Massachusetts:			
Birmingham	2	2		Adams	0	2	
Arkansas:				Cambridge	(1)	1	
Fort Smith	4	4		Fall River	3	1	
Hot Springs	0	1		Pittsfield	(1)	1	
California:				Taunton	0	1	1
Long Beach	0	1		Michigan:			
Los Angeles	3	1		Battle Creek	0	4	
San Francisco	2	3		Detroit	4	2	
Connecticut:				Flint	2	1	
Hartford	1	2		Kalamazoo	1	1	
New Haven	(1)	3		Port Huron	1	3	
District of Columbia:				Saginaw	1	4	
Washington	3	6	2	Minnesota:			
Georgia:				Duluth	(1)		1
Atlanta	(1)	2	1	Minneapolis	2	1	
Illinois:				Red Wing	0	1	
Chicago	10	7	1	St. Paul	1	1	1
Danville	(1)	2		Missouri:			
Kewanee	0	1		Kansas City	(1)	2	
Mattoon	0	3		St. Louis	12	4	1
Rockford	1	1		Springfield	0		1
Springfield	0	1	1	Montana:			
Indiana:				Billings	0	1	
Bedford	0	1		Nebraska:			
Huntington	1	1		Omaha	(1)	1	1
Kokomo	(1)	2		Nevada:			
Logansport	0	1		Reno	0	1	
Richmond	0	1		New Hampshire:			
South Bend	(1)	1		Concord	0	1	
Iowa:				Dover	0	1	
Burlington	0	1		New Jersey:			
Kansas:				Jersey City	0	2	
Parsons	0	1		Morristown	0	1	
Kentucky:				Plainfield	(1)	1	
Louisville	2		1	Trenton	1	1	
Louisiana:				New Mexico:			
New Orleans	4	2		Albuquerque	1	3	
Maine:				New York:			
Bangor	0	1		Binghamton	(1)	1	
Lewiston			1	Buffalo	4	2	
Maryland:				Dunkirk	0	1	
Baltimore	10	4	1	New York	24	14	3
Cumberland	0	1	2	Rochester	3	1	

[1] Average less than 1.

TYPHOID FEVER—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

Place.	Average cases.	1920 Cases.	1920 Deaths.
New York—Continued.			
Rome	0	1	
Schenectady	(1)	2	
Troy	(1)	2	
North Carolina:			
Durham	(1)		1
Winston-Salem	1		1
North Dakota:			
Fargo	0	1	
Ohio:			
Akron	2	1	
Cleveland	2	7	
East Cleveland	0	1	
Findlay	0		1
Lorain	(1)	2	
Marion	1	1	
Middletown	0	1	
Piqua	0	1	
Steubenville	(1)	1	
Toledo	2	1	
Oklahoma:			
Tulsa		3	
Oregon:			
Portland	2		2
Pennsylvania:			
Beaver Falls	0	2	
Bradford	0	1	
Butler	(1)	1	
Pennsylvania—Contd.			
Chester	(1)	1	
Johnstown	(1)	2	
Lancaster	(1)	2	
Philadelphia	10	1	
Pittsburgh	2	3	
Sunbury	0	1	
Washington	(1)	3	
Williamsport	0	1	
Rhode Island:			
Providence	1	1	
South Carolina:			
Charleston	2	1	
Tennessee:			
Memphis	1		1
Nashville	3	1	
Texas:			
El Paso	1	1	1
Utah:			
Salt Lake City	2	1	
Virginia:			
Portsmouth	(1)	5	
West Virginia:			
Huntington	0	2	
Wheeling	5	1	
Wisconsin:			
Fond du Lac	0	1	

[1] Average less than 1.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended Nov. 27, 1920.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria. Cases.	Diphtheria. Deaths.	Measles. Cases.	Measles. Deaths.	Scarlet fever. Cases.	Scarlet fever. Deaths.	Tuberculosis. Cases.	Tuberculosis. Deaths.
Adams, Mass	14,405				6				2	
Akron, Ohio	93,604	28	9		5		4		1	
Alameda, Calif	28,433	9	1							
Albany, N. Y	106,632		3		15		8		5	
Albuquerque, N. Mex	14,509	15	2		10		1		8	8
Alexandria, Va	17,959	4								
Allentown, Pa	65,109		14		37					
Alliance, Ohio	19,781	6	1				1			
Alton, Ill	23,783	7	4				2	1		1
Altoona, Pa	59,712		1							
Amesbury, Mass	10,200	1								
Anaconda, Mont	10,631	3	1	1	6		6			
Ann Arbor, Mich	15,041	8	1				2			
Anniston, Ala	14,326		2							
Arlington, Mass	13,073	6	1		1		1		1	1
Asbury Park, N. J	14,629	3								
Ashtabula, Ohio	22,008	5		1		1			1	
Atchison, Kans	16,785		2				4			
Atlanta, Ga	196,144	59	10		7		2		3	5
Atlantic City, N. J	55,515	14	1				1			1
Attleboro, Mass	19,776	5					1			
Auburn, N. Y	37,823	7	1							
Aurora, Ill	34,795	5								
Baltimore, Md	594,637	204	59	4	14		12		14	19
Bangor, Me	26,958		5				1			
Barberton, Ohio	14,187	7	1							
Battle Creek, Mich	30,159		6	1			5			
Bayonne, N. J	72,204		5		6		3		3	

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases	Deaths.	Cases.	Deaths.
Beacon, N. Y	11,674	4								
Beatrice, Nebr	10,437	1								
Beaumont, Tex	28,851	8			1					1
Beaver Falls, Pa	13,749		1		9		3			
Bedford, Ind	10,613	2					2			
Belleville, N. J	12,797								1	
Beloit, Wis	18,547	4								
Benton Harbor, Mich	11,099	3					2			
Berkeley, Calif	60,427	9	5				7			
Berlin, N. H	13,892	0								
Bethlehem, Pa	14,353		5				11			
Beverly, Mass	22,128	5	2							
Biddeford, Me	17,760		2		3					
Billings, Mont	13,123	5	1		1		2			
Binghamton, N. Y	54,864	16			111	1	1			
Birmingham, Ala	189,716	55	5		1		2		8	9
Bloomfield, N. J	19,013	3					1		1	
Bloomington, Ill	27,462	10					2			
Bloomington, Ind	11,661	3								
Bluefield, W. Va	16,123		1				5			
Boise, Idaho	35,951	4	1				1			
Boston, Mass	767,813	187	51	2	23	1	22	1	61	10
Braddock, Pa	22,030		8				1			
Bradford, Pa	[1] 14,544				10		3		2	
Brazil, Ind	10,472	3								
Bridgeport, Conn	124,724	33	13	3	1		12		4	2
Bristol, Conn	16,318	6	7						3	
Brockton, Mass	69,152								3	
Brookline, Mass	33,526	2	1				1		1	
Brunswick, Ga	10,984	2								
Buffalo, N. Y	475,781	125	88	5	91	5	10	2	23	11
Burlington, Vt	21,802	10	2						2	1
Butler, Pa	28,677						11			
Butte, Mont	44,057	18	1		42		1			1
Cambridge, Mass	114,293	30	10		3		8	1	2	2
Canton, Ohio	62,566	14	8	2	1		5			2
Cape Girardeau, Mo	11,146	5	3							
Carbondale, Pa	19,397		2		23					
Carnegie, Pa	11,963						1			
Centralia, Ill	11,838	3								
Chambersburg, Pa	12,475		1		1					
Charleston, S. C	61,041	19	5				1			1
Charleston, W. Va	31,030		5		1		1			
Charlotte, N. C	40,759	20	1		13		1			
Chelsea, Mass	46,405	7	2		7		1			
Chester, Pa	41,857		7				4		2	
Chicago, Ill	2,547,201	594	288	16	92	1	142	6	163	40
Chicopee, Mass	29,950	10		2						2
Chillicothe, Ohio	15,625	7					1		2	1
Cincinnati, Ohio	414,248	93	26	1	1		15	1	15	10
Cleveland, Ohio	692,259		50	3	14		70	3	19	16
Clinton, Iowa	27,678		1							
Clinton, Mass	[1] 13,075	6			39					
Coatesville, Pa	13,998		4				13			
Coffeyville, Kans	18,331	6	2				1			
Cohoes, N. Y	25,252	5			66					
Colorado Springs, Colo	38,965	5								
Columbia, Pa	[1] 11,454		1							
Columbia, S. C	35,165		3		3					
Columbus, Ohio	220,135	72	16				10	1	7	6
Concord, N. H	22,858	10			16					1
Connellsville, Pa	15,876		2		2					
Corpus Christi, Tex	10,789	4								
Council Bluffs, Iowa	31,838	9					8			
Covington, Ky	59,623	12					4		1	
Cranston, R. I	26,773	7	3				1			2
Crawfordsville, Ind	11,443	1								
Cumberland, Md	26,686	15	1				1		1	
Dallas, Tex	129,738	33	16	1	1		9		3	1
Danbury, Conn	22,531	13					2			
Danville, Ill	32,969	11					1		3	

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Danville, Va	20,183		3							
Davenport, Iowa	49,618						3			
Dayton, Ohio	128,939	24	8		1		5		1	
Decatur, Ill	41,483	7	5							
Dedham, Mass	10,618	3								
Denver, Colo	268,439	75	25	1	84		7			10
Des Moines, Iowa	104,052	1	14	1			8			
Detroit, Mich	619,648	178	109	8	8		87	1	26	7
Dover, N. H	13,276	4	1		2					
Dubois, Pa	14,994		3		1					
Dubuque, Iowa	40,096		7		1		1			
Duluth, Minn	97,077	15	4	2	1		4		1	2
Dunkirk, N. Y	21,311	8	7	2			5			1
Dunmore, Pa	21,286		6		9					
Durham, N. C	25,160	6	5				1			
East Chicago, Ind	39,286	11		1						1
East Cleveland, Ohio	13,834		2		1					
Easthampton, Mass	10,656	1	4	1			1		1	
Easton, Pa	30,354		2				2			
East Orange, N. J	43,761	2	18				1			
East Providence, R. I	18,485		1		1					
East St. Louis, Ill	77,312	13	1							1
Eau Claire, Wis	18,887				2		2			
Elgin, Ill	28,562	9	8				1			
Elizabeth, N. J	88,833	20						1		1
Elkhart, Ind	22,273	10		1			9			1
Elmira, N. Y	38,272	18	2							
El Paso, Tex	69,149	47	3	1	4		1			9
Elwood, Ind	[1] 11,028	3								
Englewood, N. J	12,603	2								1
Erie, Pa	76,592		10				14		11	
Eureka, Calif	15,142	3					5			
Evanston, Ill	29,304	12	5							
Evansville, Ind	76,981	21	17				3	1		1
Everett, Mass	40,160	6	2				5		1	2
Fairmont, W. Va	18,111		2							
Fall River, Mass	129,828	32	7		13		1		5	3
Fargo, N. Dak	17,872	5					3		1	
Farrell, Pa	10,190		2				13			
Findlay, Ohio	[1] 14,858	7					1			
Flint, Mich	57,386	24	29	1	1		10			
Fond du Lac, Wis	21,486	5	3							
Fort Dodge, Iowa	21,039	1								
Fort Scott, Kans	10,564	3	6							
Fort Smith, Ark	29,330		2				2		1	
Fort Wayne, Ind	78,014	21	4				2			1
Fostoria, Ohio	10,959	2					1		1	
Frankfort, Ind	10,103	0			1		2			
Freeport, Ill	19,844	5								
Galesburg, Ill	24,629	6								
Galveston, Tex	42,650	13	2				1			
Gardner, Mass	17,534	5							1	
Garfield, N. J	15,109		1							
Gary, Ind	56,000		3		1		1			
Geneva, N. Y	13,915	6								
Glens Falls, N. Y	17,180	6								
Grand Forks, N. Dak	15,342	0	7		1					
Grand Rapids, Mich	152,861	34	21	1	1		5		2	
Granite City, Ill	15,890	2	1							1
Great Falls, Mont	[1] 13,948	10			5		3		1	1
Greely, Colo	11,942	5								
Green Bay, Wis	30,017	6	2		1				1	1
Greenfield, Mass	12,251	4					7			
Greensboro, N. C	20,171	12								
Greenwich, Conn	19,594	4	3				1			
Hackensack, N. J	17,412	1	3		1					
Hamilton, Ohio	41,338	6			1		8			
Hammond, Ind	27,016		5				6			
Harrisburg, Pa	73,276		11		1		3			
Harrison, N. J	17,345		11	1						
Hartford, Conn	112,831	29	11	1			6		5	

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Haverhill, Mass	49,180	14	9		1		3		2	1
Hazelton, Pa	28,981		2				1			
Hibbing, Minn	17,550	4	2	1			1			
Highland Park, Mich	33,859	7	3				3		1	
Hoboken, N. J	78,324	21	2	1					2	3
Holyoke, Mass	66,503	18	1				1		3	
Hot Springs, Ark	17,690	5								
Huntington, Ind	10,982	2					1			
Huntington, W. Va	47,686	14	4				1			
Hutchinson, Kans	21,461		2							
Independence, Mo	11,964	6								
Indianapolis, Ind	283,622	83	7	1	3		49	1	10	7
Iowa City, Iowa	11,626		1							
Ironton, Ohio	14,079	6			1		8			2
Ironwood, Mich	15,095	3			5		2			
Irvington, N. J	16,710						5		1	
Ishpeming, Mich	[1] 12,448	3	3				3			
Ithaca, N. Y	16,017	5								1
Jacksonville, Ill	15,506	7								
Jamestown, N. Y	37,431	9	6				3		1	
Janesville, Wis	14,411	6	1				4			1
Jefferson City, Mo	13,712	3								
Jersey City, N. J	312,557		33		1		12		8	
Johnstown, N. Y	10,678		4		3		1		1	
Joplin, Mo	33,400		8				3			
Kalamazoo, Mich	50,408	18	2				11		2	2
Kankakee, Ill	14,270	3			5					
Kansas City, Kans	102,096		16		1		4		4	
Kansas City, Mo	305,816	81	39	3	3		23		3	6
Kearny, N. J	24,325	3	7		1		3		2	
Keene, N. H	10,725	2								
Kenosha, Wis	32,833	7	5	1	1		2			
Keokuk, Iowa	[1] 14,008	3	2							
Kewanee, Ill	13,607	5	3				4			
Knoxville, Tenn	59,112		12	2			5		2	2
Kokomo, Ind	21,929	7					3			1
Lackawanna, N. Y	16,219	5	1	1	23		2		1	
Lafayette, Ind	21,481	3					2	1		
Lake Charles, La	14,930	8					2			
Lancaster, Ohio	16,086	2			1					
Lancaster, Pa	51,437		12				2		1	
La Salle, Ill	12,332	2					2			
Laurel, Miss	12,313		1							
Lawrence, Kans	13,477	1					1			
Lawrence, Mass	102,923	22	9	3	2		9		4	2
Leavenworth, Kans	[1] 19,363	2	5				2			
Lebanon, Pa	20,947		4							
Leominster, Mass	21,365	5								
Lewiston, Me	28,061	7	2		11				1	1
Lexington, Ky	41,997	21	1							5
Lincoln, Nebr	46,957	11					1			
Little Rock, Ark	58,716		5		19		1		6	
Lockport, N. Y	20,028	10	1	1			1		1	
Logansport, Ind	21,338	6					1			
Long Beach, Calif	29,163	14	3		1				1	
Lorain, Ohio	38,266	10	2				4			
Los Angeles, Calif	535,485	126	47	3	29		14		50	17
Louisville, Ky	240,808	76	22				11		8	8
Lowell, Mass	114,366	31	5		67		6		10	4
Ludington, Mich	10,566	8								
Lynchburg, Va	33,497	8	9						1	2
Lynn, Mass	104,534	26	13	2	1		3		4	3
McKees Rocks, Pa	20,795		1							
Madison, Wis	31,315	11					3			1
Mahanoy City, Pa	17,709		2							
Malden, Mass	52,243	14	2				1		1	
Manchester, Conn	15,859	1								
Manchester, N. H	79,607	14	15						3	1
Mankato, Minn	[1] 10,385	2					2		1	
Mansfield, Ohio	23,051	6			1		1			1
Marinette, Wis	[1] 14,610				1		2			
Marion, Ind	19,923	0	1				1			

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Marion, Ohio	24,129		1				1		2	
Marquette, Mich	12,555	3			2				1	
Marshalltown, Iowa	14,519						1			
Mason City, Iowa	14,938	7			2		1	1		
Mattoon, Ill	12,764								1	
Medford, Mass	26,681	7	3		1		3			
Melrose, Mass	17,724	9			1		1		2	
Memphis, Tenn	151,877	37	22	1			11		4	4
Meriden, Conn	[1] 29,431	4	3	1			6			
Methuen, Mass	14,320	4	3		1					
Middletown, N. Y	15,800		1		31		2		1	
Middletown, Ohio	16,384	5							3	2
Milwaukee, Wis	445,008	101	96	4	7		39	1	15	4
Minneapolis, Minn	373,448	75	22	1	2		46		15	2
Mishawaka, Ind	17,083	5					2			
Missoula, Mont	19,075	5					3		1	
Mobile, Ala	59,201	21	4							
Monessen, Pa	23,070				1		2		1	
Monmouth, Ill	10,346	2					3			1
Monroe, La	13,698	8	2							1
Montclair, N. J	27,987	4	2		9				1	
Montgomery, Ala	44,039	13	1				4			
Morgantown, W. Va	14,444	1	1		1				11	
Morristown, N. J	13,410	0					1			
Moundsville, W. Va	11,513	2					1			
Mount Carmel, Pa	20,709		3				2			
Mount Vernon, N. Y	37,991	7	7				1			
Muncie, Ind	25,653	9	3				5		1	
Muscatine, Iowa	17,713	6								
Muskegon, Mich	27,434	9	11	1			2			
Muskogee, Okla	47,173		4		1		5		1	
Nanticoke, Pa	23,811		6		7		1			
Nashville, Tenn	118,136	53	10		1		5		2	4
Newark, Ohio	30,317	8					1		1	1
New Bedford, Mass	121,622	25	7		1		3		7	3
New Britain, Conn	55,385	12	23		5		3			1
New Brunswick, N. J	25,855		3				1		1	
Newburgh, N. Y	29,893	7	3							1
Newburyport, Mass	15,201	6								
New Haven, Conn	152,275	25	16				13		13	2
New London, Conn	21,199	3							2	
New Orleans, La	377,010	138	7	1	35	1	5		25	15
New Philadelphia, Ohio	10,133						2			
Newport, R. I	30,185	5	2				1			
Newton, Mass	44,343	10	4		44		4		1	
New York, N. Y	5,737,492	1,232	377	21	39		196	4	[2] 149	[2] 114
Niagara Falls, N. Y	28,466	14	3	2			28		1	1
Norristown, Pa	31,969		1		1		3			
North Adams, Mass	[1] 22,019	4	1							
Northampton, Mass	20,006	12	1		1		1		1	2
North Braddock, Pa	15,684		1							
North Little Rock, Ark	15,515	4	1				3			
North Tonawanda, N. Y	14,000	2	3							
Norwalk, Conn	27,332	8	4				2		2	1
Norwich, Conn	21,923	5	1						1	1
Norwood, Ohio	23,209	4			1		2		2	
Oakland, Calif	206,405	48	3		1		2		3	4
Oak Park, Ill	27,816	11	9		3		11			
Ogdensburg, N. Y	16,845	2								
Oil City, Pa	20,162		13		17				1	
Oklahoma City, Okla	97,588	15	13				1			
Old Forge, Pa	15,479				8					
Olean, N. Y	16,927	7	2		2				2	1
Omaha, Nebr	177,777	26	10		1		4			3
Orange, Conn	14,393	4	2							1
Orange, N. J	33,036	6	1		1				2	1
Oshkosh, Wis	36,549	8	2				1		2	1
Paducah, Ky	25,178		4				2			
Parkersburg, W. Va	21,059	6	2							
Parsons, Kans	15,952		6				4			
Pasadena, Calif	49,620	11	1		3				3	2

[1] Population Apr. 15, 1910.

[2] Pulmonary tuberculosis only.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Passaic, N. J.	74,478	13	3		6		2		1	4
Paterson, N. J.	140,512		7		1		7		1	
Pawtucket, R. I.	60,666	18	2							
Peabody, Mass.	18,785	8								
Peekskill, N. Y.	19,034	8	1		3					
Peoria, Ill.	72,184	24	6		1		12			
Perth Amboy, N. J.	42,646	7	8	1	5		5		1	
Petersburg, Va.	25,817	6	6	1			2		2	
Philadelphia, Pa.	1,735,514	458	83	9	5		120	4	78	42
Phillipsburg, N. J.	15,879	1								
Piqua, Ohio	14,275	5							1	1
Pittsburgh, Pa.	586,196		41		6		81		14	
Pittsburg, Kans.	18,340	7	1	1			2			
Pittsfield, Mass.	39,678	12			16		1		2	1
Plainfield, N. J.	24,330	7	1	1			4		2	1
Plattsburg, N. Y.	13,111	1								
Plymouth, Mass.	14,001	4								
Plymouth, Pa.	19,439		1				1			
Pontiac, Mich.	18,006	3					9			1
Port Chester, N. Y.	16,727	1	2							
Port Huron, Mich.	[1] 18,863	6	2	1			1			
Portland, Me.	64,720	19	3		8					
Portland, Oreg.	308,399	53	11		22		5		6	7
Portsmouth, N. H.	11,730		1							
Portsmouth, Va.	40,693	17	3	1	11				1	1
Pottstown, Pa.	16,987		8		1					
Pottsville, Pa.	22,717		2							
Poughkeepsie, N. Y.	30,786	9	1				1			1
Providence, R. I.	259,895	61	10		25	1	9			4
Pueblo, Colo.	56,084	12	4	2			3			1
Quincy, Ill.	36,832	14	2				4			2
Quincy, Mass.	39,022	12	3				1			
Racine, Wis.	47,465	13	25	2			8			1
Rahway, N. J.	10,361	1					1			
Raleigh, N. C.	20,274	8	5		12		1			
Reading, Pa.	111,607		3				2			
Redwing, Minn.	10,158		1							
Reno, Nev.	15,514	4								1
Richmond, Ind.	25,080	8	1	1						
Richmond, Va.	158,702	43	26				9			7
Riverside, Calif.	20,496	5	2		2				1	1
Roanoke, Va.	46,282	14	13		2		2		1	4
Rochester, N. Y.	264,714	61	90	2	4		16	1	6	2
Rockford, Ill.	56,739	12	1				2			2
Rock Island, Ill.	29,452	5					4		2	3
Rocky Mount, N. C.	12,673	6								
Rome, Ga.	15,607		1				1			
Rome, N. Y.	24,259		5				21			
Rutland, Vt.	15,038	4								
Sacramento, Calif.	68,984	26	5	1	2		4		4	2
Saginaw, Mich.	56,469	16	6	2			1		1	
St. Charles, Mo.	10,498	4	2				1			
St. Cloud, Minn.	12,013		1						1	
St. Joseph, Mo.	86,498	32	5	1	2		4			4
St. Louis, Mo.	768,630	174	140	7	5		35		16	19
St. Paul, Minn.	252,465	46	18				11		11	5
Salem, Mass.	49,346	19	1							1
Salem, Oreg.	21,274	3								
Salina, Kans.	12,470	3	1							
Salt Lake City, Utah	121,623	19	4		68		2		2	1
San Angelo, Tex.	[1] 10,321	2		1						1
San Bernardino, Calif.	17,616	8	5							
San Diego, Calif.	56,412	20	6						1	3
Sandusky, Ohio	20,226	2					1			
Sanford, Me.	11,217	4							1	
San Francisco, Calif.	471,023	114	23	2	8		12		24	9
Santa Barbara, Calif.	15,360	8								1
Santa Cruz, Calif.	15,150	12	6	1						
Saratoga Springs, N. Y.	13,829	4			1					
Saugus, Mass.	10,210	3					2			1
Sault Ste. Marie, Mich.	14,130	3								3

[1] Population Apr. 15, 1910.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City Reports for Week Ended Nov. 27, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau.)	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Savannah, Ga	69,250	45	4	1			1		1	2
Schenectady, N. Y	103,774	18	6	1	8		3			
Scranton, Pa	149,541		7		5		6		3	
Shamokin, Pa	21,274				1		2			
Sharon, Pa	19,156		4				6			
Sheboygan, Wis	28,907		1				1			
Shenandoah, Pa	29,753		3				6			
Sioux City, Iowa	58,568		3				5			
Sioux Falls, S. Dak	16,887	3	1				3			
Somerville, Mass	88,618	18	2				5		1	
South Bend, Ind	70,967	16	5				5			1
Spartanburg, S. C	21,985	6	1							
Springfield, Ill	62,623	21	1		13		37			1
Springfield, Mass	108,668	20	1				14	1	3	1
Springfield, Mo	41,109	10								1
Springfield, Ohio	52,296	14	4		4		10			
Stamford, Conn	31,810						3		1	
Steelton, Pa	15,759				1					
Steubenville, Ohio	28,259	9	2				1			
Stillwater, Minn	[1] 10,198	3					1			
Sunbury, Pa	16,661		4				1			
Superior, Wis	47,167	18	4				6	1		
Syracuse, N. Y	158,559	33	15	2	25		29			2
Taunton, Mass	36,610	16	1		6		8	1		1
Temple, Tex	13,904		3							
Terre Haute, Ind	67,361	12	5				8			
Tiffin, Ohio	12,962	2								
Toledo, Ohio	202,010	54	33	4			12			2
Topeka, Kans	49,538	9	4		70		3			2
Traverse City, Mich	14,090	3	2				3			
Trenton, N. J	113,974	36	8		1		4		1	1
Trinidad, Colo	14,413				33		1			
Troy, N. Y	78,094	21	1	1	23		1		3	1
Tucson, Ariz	17,324	16		1						6
Tulsa, Okla	32,507		14				3			
Tuscaloosa, Ala	10,824		3							
Uniontown, Pa	21,600		1		1		6			
Vallejo, Calif	13,803	1								
Waco, Tex	34,015	14					2			1
Wakefield, Mass	12,947	2							1	1
Waltham, Mass	31,011	8			6				1	1
Warren, Pa	15,083						3			
Washington, D. C	369,282	132	35	3	11		22		19	13
Washington, Pa	22,076		1		21				1	
Watertown, Mass	15,188	2							1	
Wausau, Wis	19,606	4			1					2
Webster, Mass	13,484	3							1	
West Chester, Pa	13,403		1				1			
Westfield, Mass	18,769	4							1	
West Hoboken, N. J	44,336	4	1				2		1	
West New York, N. J	19,613	2	9						1	
West Orange, N. J	13,964	2	2		1		2			1
Wheeling, W. Va	43,657	23	8		5		2			1
White Plains, N. Y	23,331	3								
Wichita, Kans	73,597	17	16	1			15		1	
Wilkes-Barre, Pa	78,334		9		17		7			
Wilkinsburg, Pa	23,899		3				1		1	
Williamsport, Pa	34,123		3				5			
Wilmington, Del	95,369	30	1				4	1		5
Wilmington, N. C	30,400	14	1				1			1
Winchester, Mass	10,812	4								
Winona, Minn	[1] 18,583						1			
Winston-Salem, N. C	33,136	11	3		1				2	2
Winthrop, Mass	13,105	2	1							
Woburn, Mass	16,076	6								
Worcester, Mass	166,106	42	5		1		5		4	3
Yonkers, N. Y	103,066	17	6		2		7			1
York, Pa	52,770		15				3			
Zanesville, Ohio	31,320	9	4				1			2

[1] Population Apr. 15, 1920.

FOREIGN AND INSULAR.

TYPHUS FEVER ON VESSEL.

Steamship "United States"—Copenhagen and Christiania.

A case of typhus fever was found on the steamship *United States* on clearance of the vessel from Copenhagen, Denmark, November 18, 1920. The case with four contacts was removed from the vessel at Christiania, Norway. The *United States* sailed from Christiania November 19, 1920, for New York.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Nov. 11-20, 1920.		Remaining under treatment Nov. 20, 1920.	Disease.	Nov. 11-20, 1920.		Remaining under treatment Nov. 20, 1920.
	New cases.	Deaths.			New cases.	Deaths.	
Cerebrospinal meningitis	.....	.....	1	Malaria	54	.....	[1] 108
Chicken pox	1	.....	3	Measles	3	1	23
Diphtheria	.....	.....	2	Scarlet fever	2	.....	6
Leprosy	.....	.....	12	Typhoid fever	16	5	[2] 67

[1] From the interior, 44; from abroad, 3. [2] From the interior, 30; from abroad, 3.

Disease.	Nov. 21-30, 1920.		Remaining under treatment Nov. 30, 1920.	Disease.	Nov. 21-30, 1920.		Remaining under treatment Nov. 30, 1920.
	New cases.	Deaths.			New cases.	Deaths.	
Cerebrospinal meningitis	.....	.....	1	Malaria	88	3	[2] 123
Chicken pox	4	.....	5	Measles	4	.....	15
Diphtheria	1	.....	3	Scarlet fever	.....	.....	5
Leprosy	1	.....	[1] 12	Typhoid fever	14	6	[3] 50

[1] One went abroad. [2] From the interior, 30; from abroad, 2. [3] From the interior, 22; from abroad, 3.

LIBERIA.

Epidemic Smallpox—Monrovia.

Epidemic smallpox was stated to be present at Monrovia, Liberia, November 30, 1920, with 34 reported cases. The disease had been previously reported present November 13, 1920.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During Week Ended Dec. 17, 1920.[1]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea)				Nov. 5-11, 1920: Cases, 71; deaths, 43.
India				Sept. 5-11, 1920: Deaths, 2,021.
Bombay	Oct. 3-9	1	1	
Calcutta	Oct. 10-16	26	24	
Madras	Oct. 24-30	1	1	
Japan:				
Taiwan Island	Oct. 11-31	525	359	
Philippine Islands:				
Manila	Oct. 17-23	2		
Provinces—				
Cagayan	Sept. 19-Oct. 2	2	2	
Siam:				
Bangkok	Sept. 19-25	3	1	

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Azores:				
St. Michaels	Nov. 6-19	50	14	
Ceylon:				
Colombo	Oct. 17-23	8	4	
Egypt				Jan. 1-Nov. 11, 1920: Cases, 444; deaths, 257.
Cities—				
Suez	Nov. 6	1		
Provinces—				
Gharbieh	Nov. 6-11	3	2	1 septicemic.
India				Oct. 3-16, 1920: Cases, 5,087; deaths, 3,789.
Bombay	Oct. 9-16	3	3	
Madras Presidency	Oct. 24-30	679	474	
Rangoon	Sept. 26-Oct. 2	13	11	

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia	Oct. 17-23	1		
Santos	Aug. 30-Sept. 5		1	
Canada:				
Ontario—				
Hamilton	Nov. 29-Dec. 4	3		
Kingston	Nov. 14-27	7		
Ottawa	Nov. 29-Dec. 4	45		
Quebec—				
Quebec	Nov. 29-Dec. 4	3		
China:				
Amoy	Oct. 17-23		1	
Chungking	Oct. 24-30			Present.
Harbin	Oct. 25-31	1		On Eastern Chinese Railway.
Nanking	Oct. 31-Nov. 6			Present.
Pogranitchnaya	Oct. 25-31	3		On Eastern Chinese Railway.
Great Britain:				
Glasgow	Nov. 7-13	3		
Honduras:				
San Pedro Sula	Sept. 5-11		1	
India				Sept. 5-11, 1920: Deaths, 211.
Madras	Oct. 24-30	3	1	
Rangoon	Sept. 26-Oct. 2		1	
Italy:				
Catania	Nov. 8-14			In province, 33 cases.
Liberia:				
Monrovia	Nov. 30	34		Epidemic.
Mexico:				
Chihuahua	Nov. 22-28		1	
Spain:				
Madrid	Oct. 1-31		2	
Tunis:				
Tunis	Nov. 8-14	1	4	

[1] From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During Week Ended Dec. 17, 1920—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile:				
Valparaiso	Oct. 17-23		3	
Egypt:				
Cairo	Sept. 3-16	23	8	
Japan:				
Nagasaki	Nov. 1-7	2		
Mexico:				
San Luis Potosi	Nov. 21-27		1	
On vessel:				
S. S. United States	Nov. 18	1		At Copenhagen, Denmark. Case found on clearance. Removed with contacts at Christiania, Norway. Vessel sailed Nov. 19, for New York.

Reports Received from June 26 to Dec. 10, 1920.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Rio de Janeiro	June 27-July 3		1	
China:				
Amoy	June 20-Aug. 14		12	
Antung	Aug. 9-31	2	1	
Canton	July 1-Aug. 31	5	4	
Changsha	Aug. 22-Oct. 16	138	51	Aug. 15-21: Present. Oct. 3-9: Present.
Chungking	May 16-24		1,319	
Do	June 6-Sept. 11		5,322	Sept. 18: Present. Oct. 3-16: Present and in vicinity.
Dairen	Sept. 29	4	1	
Foochow	July 11-24			Present.
Hankow	July 4-17	12	5	
Harbin				Year 1919: Cases, 603. On Eastern Chinese R. R. line. At other stations, same line, 190 cases.
Hongkong	Aug. 8-14	1	1	
Nanking	Sept. 12-25		4	Several cases reported at Nanking University, Aug. 30. Reported prevalent among Chinese, Aug. 30.
Shanghai	Aug. 2-29	1	6	Aug. 1-Oct. 7, 1920: Cases, 24,535; deaths, 12,549.
Tientsin	Oct. 3-9	15		
Chosen (Korea)				
Chemulpo	Aug. 1-Oct. 7	24	21	
Chinampo	Aug. 1-26	34	23	
Fusan	Aug. 1-Oct. 28	684	517	
Gensan	Aug. 27-Sept. 2	1		
Mokpo	Aug. 1-Sept. 30	28	18	
Seoul	Aug. 1-Nov. 4	2,032	881	
Galicia:				
Buczacz	Oct. 18			Present.
Greece:				
Patras	July 26-Aug. 1			Present in surrounding country.
Zante	Aug. 2-8			Present.
India				Apr. 11-May 22, 1920: Deaths, 7,549. May 30-June 26, 1920: Deaths, 3,710. June 27-July 10, 1920: Deaths, 1,711. July 25-Aug. 7, 1920: Deaths, 2,687. Aug. 21-Sept. 4, 1920: Deaths, 5,872.
Bombay	May 2-June 26	85	36	
Do	June 27-Sept. 18	105	68	
Calcutta	May 2-June 24	439	423	
Do	July 18-Oct. 2	188	181	
Madras	May 2-June 26	20	13	
Do	July 11-Oct. 23	15	2	
Rangoon	June 27-Oct. 16	23	17	
Indo-China				1920: Jan.—Cases, 40; deaths, 24. Feb.—Cases, 25; deaths, 15. Mar.—Cases, 52; deaths, 30. Apr.—Cases, 204; deaths, 99. May—Cases, 328; deaths, 184. June—Cases, 292; deaths, 201.
Saigon	Apr. 26-June 13	13	24	
Do	July 26-Sept. 5	9	5	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Kobe	June 14-27	36	24	Kobe, June 6-13, 34 cases. Moji, June 6-12, 10 cases. Kochi, June 6-12, 1 case. Hiroshima, June 6-12, 6 cases.
Do	June 28-Oct. 17	409	223	
Nagasaki	June 21-27	7		
Do	June 28-July 18	34	13	
Osaka	June 8			Present.
Taiwan Island	May 22-June 30	66	38	
Do	July 11-Oct. 10	1,414	553	
Java:				
West Java—				
Batavia	Apr. 30-June 3	6	2	June 4-17: Present.
Do	June 25-Aug. 12	3		
Philippine Islands				May 9-June 26, 1920: Cases, 16; deaths, 12. June 27-July 17, 1920: Cases, 63; deaths, 31. July 25-31: Cases, 57; deaths, 48.
Manila	May 9-June 26	5	1	
Do	June 27-Sept. 25	5		
Provinces—				
Albay	May 9-15	2	1	
Batangas	June 27-July 3	1		
Bohol	do	1	1	
Cagayan	May 9-June 26	11	19	
Do	June 27-Sept. 18	53	21	
Cavite	Sept. 5-11	1	1	
Iloilo	June 27-July 17	3		
Isabela	July 11-Sept. 4	25	26	
Laguna	July 4-10	8		
Masbate	do	1	1	
Misamis	July 11-17	4	2	
Nueva Viscaya	July 25-31	49	42	
Pangasinan	July 4-Aug. 7	7	5	
Tarlac	Sept. 12-18	1	1	
Poland:				
Warsaw	Oct. 28	1	1	Case occurred in employee on river boat plying between Warsaw and Danzig.
Russia				Reported prevalent in southern Russia, June 4, 1920.
Grodno	Oct. 18			Present.
Sebastopol (district)	June 20			Reported increasing.
Simferopol				Jan.-June, 1920: Cases, 1,262; deaths, 584. South Russia, Government of Tauride.
Vilna	Sept. 28	40		Oct. 18: Present.
Siam:				
Bangkok	Apr. 25-June 26	542	343	
Do	June 26-Sept. 18	65	29	
Straits Settlements:				
Singapore	July 18-Oct. 2	26	24	
Sumatra:				
Medan	Aug. 20-Sept. 3	1		On local steamship. From Singapore.
Turkey:				
Amassia	Dec. 24	1		Asiatic Turkey.
Kaiseri	Dec. 22	1		Do.
Karassi	Jan. 3	1		Do.
Mamuret-ul-Aziz	Dec. 31	1	1	Do.
Panderma	Dec.-Jan.	16	6	
Rodosto	Dec. 29	1		European Turkey.
Smyrna	Dec. 22	3	2	Asiatic Turkey.
On vessel:				
S. S. Keketticut	Aug. 2	1		U. S. S.: At Shanghai.
Steamship (local)	Aug. 20-Sept. 3	1	1	At Medan, island of Sumatra. From Singapore.

PLAGUE.

Algeria:				
Algiers				Sept. 1-Oct. 31, 1920: Cases, 4; deaths, 1.
Azores:				
St. Michaels	Oct. 4-20	35	12	Oct. 4, 1920: 5 suspect cases isolated vicinity of Ponta Delgada. Oct. 1-31, 1920: Cases, 76; deaths, 27. To Nov. 16: Cases, 110; deaths, 38.
Do	Nov. 10-16	25	8	
Ponta Delgada	Oct. 1-26	2		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Bahia	Apr. 25-May 22	10	10	
Do	June 27-Oct. 28	12	6	
Ceara	Sept. 5-25		4	
Pernambuco	May 3-9	1	1	
Do	June 28-Aug. 15	32	16	
Porto Alegre	June 27-Aug. 21		2	
British East Africa				Apr. 1-30, 1920: Cases, 22; deaths, 9.
Kisumu	Apr. 25-June 26	14	12	
Do	July 11-Sept. 4	10	5	Present.
Mombasa	Apr. 25-June 26	104	39	
Do	June 27-Aug. 28	113	72	
Nairobi	Apr. 25-June 10	14	8	
Ceylon:				
Colombo	May 25-June 12	7	2	
Do	June 27-Oct. 16	45	37	
Chile				Mar. 1-May 31, 1920: Cases, 15; deaths, 2. Plague reported in Departments of Tacna and Tarata.
Antofagasta	May 17-June 20	5		Mar. 1-May 31, 1920: Cases, 7; deaths, 1.
Do	July 5-Nov. 7	6		
Iquique	Mar. 1-May 31	8	1	
China:				
Amoy	June 20-Sept. 18		8	
Hongkong	Apr. 4-June 26	90	70	
Do	June 27-Oct. 23	29	26	
Ecuador:				
Guayaquil	Aug. 16-Sept. 30	9	1	Oct. 16-31, 1920: Cases, 3; deaths, 2.
Egypt				Jan. 1-Oct. 14, 1920: Cases, 430; deaths, 251.
Cities—				
Alexandria	June 18-Oct. 9	13	7	
Port Said	Aug. 2-Sept. 26	3		
Suez	May 13-June 8	12	6	3 cases pneumonic.
Do	July 3-Aug. 4	4	3	
Provinces—				
Assiout	May 15-June 5	7	4	
Do	July 2-Sept. 13	7	1	
Beni-Souef	July 7-10	2	1	
Fayoum	June 5	1		
Garbieh	do	1		
Do	July 1-Oct. 11	21	17	
Girgeh	Sept. 22	1	1	Pneumonic.
Keneh	May 18	1		
Mariut	May 18-June 8	19	22	
Do	July 3-9	1	2	
Minieh	May 15	2	1	Septicemic.
Do	July 13	1		
Fiume	Sept. 21	4	2	
Great Britain:				
Liverpool	June 20-26	1	1	
Greece:				
Athens	Aug. 19-Oct. 14	3	2	
Chios	Oct. 14	1		
Dante	July 22	2		
Kavalla	July 5-Oct. 3	4		
Nauplia	Aug. 21	2		Approximately 20 cases Sept. 9.
Piræus	June 29-Sept. 20	12	1	
Saloniki	Sept. 25-Oct. 8	4		
India				Apr. 18-June 26, 1920: Cases, 12,476; deaths, 9,961. June 27-Oct. 2, 1920: Cases, 32,759; deaths, 24,602.
Bombay	Apr. 18-June 25	170	135	
Do	June 27-Oct. 25	59	46	
Calcutta	May 2-June 12	26	19	
Karachi	May 9-Oct 16	82	74	
Madras Presidency	May 9-Oct	8,865	6,285	
Rangoon	Apr. 25-June 26	120		
Do	June 27-Oct. 16	251	220	
Indo China				Jan. 1-31, 1920: Cases, 42; deaths, 40. Feb. 1-29, 1920: Cases, 41; deaths, 36. Mar. 1-31, 1920: Cases, 79; deaths, 70. Apr. 1-30, 1920: Cases, 69; deaths, 63. May 1-31, 1920: Cases, 87; deaths, 75. June 1-30, 1920: Cases, 72; deaths, 63.
Saigon	May 10-June 13	9	2	
Do	July 26-Aug. 15	5	4	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy:				
Catania	June 22-July 3	3	2	
Java:				
East Java				Apr. 23-May 5, 1920: Cases, 7; deaths, 7. Apr. 15-June 16, 1920: Cases, 8; deaths, 8. Aug. 5-25, 1920: Cases, 4; deaths, 4. Surabaya Residency.
West Java—				
Batavia	July 22-Sept. 23	16	16	
Mesopotamia:				
Bagdad	June 1-30	6	3	
Do	Sept. 1-30	1		
Mexico:				
Cerritos	Oct. 20-Nov. 10	31	17	State of San Luis Potosi. Present in vicinity.
Tampico	July 26-Sept. 27	4	3	
Vera Cruz	June 14-20	11	1	May 29-July 14, 1920: Cases, 49; deaths, 29. Corrected statement: From outbreak in May to July 20, 1920—cases, 58; deaths, 36. Nov. 8-14, 1920: Two plague-infected rodents found.
Do	July 18-24	2	2	
Peru				Mar. 1-31, 1920: Cases, 46; deaths, 29. Apr. 1-30, 1920: Cases, 35; deaths, 13. In coastal departments.
Callao	Mar. 1-Apr. 30	15	7	
Do	Aug. 1-31	1		
Lima (city)	Mar. 1-31	5	3	
Do	Apr. 1-30	4	4	
Lima (country)	Mar. 1-31	1	1	
Do	Apr. 1-30	1		
Mollendo	Mar. 1-31	13	9	
Paita	do	5	2	
Do	Apr. 1-30	2		
Salaverry	Mar. 1-31	4	3	
Do	Apr. 1-30	1		
San Pedro	do	6	1	
Trujillo—Salaverry	May 31-June 29	3	2	
Do	Aug. 30-Oct. 25	7	14	
Russia:				
Batum	Sept. 28			Prevalent.
Siam:				
Bangkok	Apr. 25-June 5	8	5	
Do	June 28-Aug. 28	6	3	
Straits Settlements:				
Singapore	Apr. 25-June 19	14	13	
Do	July 11-Aug. 7	3	3	May 16-22, 1920: Cases, 2; deaths, 3.
Syria:				
Beirut	June 30			Present.
Turkey:				
Constantinople	July 25-Aug. 21	7	6	
Uruguay:				
Montevideo	June 1-30	1	1	

SMALLPOX.

Algeria:				
Departments—				
Algiers	May 11-Aug. 31	51		City of Algiers, Apr. 1-30, 1920: 1 case. July 1-Aug. 31, 1920: Cases, 4; deaths, 2.
Constantine	June 1-Aug. 31	18		
Oran	May 11-Aug. 31	168		
Austria				May 30-June 26, 1920: Cases, 27. June 27-July 28, 1920: Cases, 35.
Gratz	July 11-28	5		
Vienna	May 30-June 26	1		
Do	July 11-28	1		
Azores:				
Ponta Delgada	July 17-Aug. 20	7		
St. Michaels	Aug. 21-27	1		From Madeira.
Bolivia:				
La Paz	May 2-June 30	10	8	
Do	July 1-Sept. 30	18	8	
Brazil:				
Bahia	Apr. 25-June 26	5	5	
Do	June 27-Oct. 2	21	2	
Pernambuco	Mar. 29-June 27	114	3	
Do	June 30-Oct. 17	269	5	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil—Continued.				
Rio de Janeiro	Apr. 11-June 26	431	6	
Do	June 27-Sept. 18	92	22	
Santos	Mar. 24-28	1		
Do	July 25-Aug. 15		8	
Sao Paulo	June 21-27		1	
Do	June 27-Aug. 8		2	
British East Africa				Mar. 1-31, 1920: Cases, 107. Apr. 1-30, 1920: Cases, 69. Reported by native inspectors.
Mombasa	May 2-22	2	1	
Do	July 11-17	3		
Nairobi	May 23-June 26	11	1	
Do	Aug. 1-21	5		
Bulgaria:				
Sofia	July 11-17	1		
Canada:				
Alberta—				
Calgary	June 3-9	1		
Do	July 4-Oct. 9	6		
British Columbia—				
Vancouver	May 16-Aug. 28	4		
Manitoba—				
Winnipeg	May 29-June 5	3		
Do	Aug. 8-21	2		
New Brunswick—				
Bonaventure and Gaspe Counties.	Aug. 1-Oct. 31	2		
Carleton County	Sept. 19-25	1		
Gloucester County	May 31-June 26	5		
Do	Sept. 19-Oct. 9	3		
Madawaska County	Oct. 31-Nov. 6	1		
Queens County	July 4-Aug. 21	7		
Restigouche County				Sept. 26-Nov. 6, 1920: Cases, 4.
Campbellton	July 1-31	7		
Nova Scotia—				
Halifax	do	2		
Sydney	May 31-June 26	2		
Do	Nov. 7-20	3		
Ontario—				
Cornwall	June 25-30	2		
Fort William and Port Arthur.	July 11-Oct. 2	4		
Hamilton	June 13-Nov. 27	15		
Kingston	May 31-June 19	4		
Do	Oct. 31-Nov. 13	11		
Montreal	Oct. 24-30	1		
North Bay	June 23-29	1		
Do	July 11-Oct. 23	8		
Ottawa	June 6-26	32		
Do	June 27-Nov. 20	262		
Peterborough	Apr. 18-July 31	33	1	
Prescott	July 11-17	1		
Do	Aug. 1-14			Present at Cardinal and Brockville.
Sault Ste. Marie	Oct. 24-30	1		
Toronto	June 6-19	13		
Do	June 26-Nov. 27	40		
Windsor	Aug. 22-Sept. 11	5		
Prince Edward Island—				
Charlottetown	Aug. 12-Oct. 13	2		
Quebec—				
Montreal	June 13-19	1		
Do	July 4-Aug. 7	4		
Quebec	June 27-Oct. 2	9		
Saskatchewan—				
Moose Jaw	June 26-30	6		
Do	July 25-Sept. 25	3		
Regina	June 2-30	1		
Do	Oct. 3-30	5		
Saskatoon	Sept. 5-Nov. 6	9		
Ceylon:				
Colombo	May 9-June 5	2		
Do	Aug. 29-Oct. 16	49	7	
Chile:				
Antofagasta	May 17-23			1 case in interior.
China:				
Amoy	May 2-Oct. 16	4	20	
Antung	May 9-June 13	3	3	
Do	June 21-27	1		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Canton	Sept. 1-30			Present.
Chungking	May 2-June 9			Do.
Do	July 11-Oct. 16			Do.
Dairen	Sept 28-Oct. 4	1		
Foochow	May 9-29			Do.
Do	July 26-Oct. 16			Do.
Hankow	June 20-26	2		
Harbin	Sept. 27-Oct. 3	1		Year 1919: Cases, 79. On Eastern Chinese R. R. line. At other stations, 109 cases.
Hongkong	Apr. 4-June	19	15	
Do	June 27-July 17	2	2	
Mukden	July 19-Oct. 9			Present.
Nanking	May 9-June 5			Do.
Do	July 4-Oct. 16			Do.
Tientsin	May 25-31	2		
Do	June 16-29	2		
Tsinanfu	May 9-15	1		
Chosen (Korea):				
Chemulpo	Mar. 1-June 30	69	40	
Do	July 1-31	18	8	
Fusan	Mar. 1-June 30	24	6	
Do	July 1-31	1	1	
Seoul	Mar. 1-June 30	358	86	
Do	July 1-31	15	6	
Colombia:				
Barranquilla	May 13-July 3			Epidemic.
Santa Marta	May 31-Nov. 13			Present.
Cuba:				
Antilla	Aug. 24-Nov. 15	5		
Habana	July 4	1		From steamship Frank Hennis from Jamaica. Arrived Santiago June 30, 1920.
Matanzas	Aug. 15-21	1	1	In vicinity, at Aguacate, Aug 1-7, 1920: Cases, 12.
Cyprus				August, 1919: Cases, 242; deaths, 54.
Czechoslovakia				May 23-June 26, 1920: Cases, 345; deaths, 36.
Moravia	Feb. 1-2	68		
Danzig	June 20-July 17	9	2	
Ecuador:				
Guayaquil	Oct. 1-31	6	1	
Egypt:				
Alexandria	May 14-June 29	53	19	
Do	June 25-Nov. 4	14	4	
Cairo	Apr. 2-June 24	62	23	
Do	July 2-Aug. 19	5		
Port Said	Apr. 2-June 24	22	8	
Do	July 2-15	2	1	
France:				
Brest	May 15-31	1		
Cette	June 24-30		1	
Nice	June 1-30		1	
Paris	May 1-10	3		
Rouen	Oct. 31-Nov. 6	1		
Germany				Feb. 22-June 12, 1920: Cases, 720.
Berlin	July 26-Sept. 4	1		July 11-Sept. 4, 1920; Cases, 81; deaths, 6. Additional cases, May 26-July 17, 1920, 66; deaths, 2
Great Britain:				
Edinburgh	Aug. 29-Sept. 4	7	1	
Glasgow	May 25-June 26	136	22	
Do	July 4-Nov. 6	181	51	
Liverpool	July 18-Sept. 11	2		
London	June 13-July 19	14		
Manchester	Aug. 22-28	5		Oct 24-30, 1920: Cases, 50. At Middletown, 6 miles distant.
Greece:				
Saloniki	May 31-June 27	4	1	
Do	July 25-Aug. 15	1	1	
Haiti				Nov. 6, 1920: Approximately 35 cases.
Jacmel	Nov. 6	1		In vicinity.
Port au Prince	Sept. 22-Nov. 7	50		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Ju e 26 to Dec. 10, 1920—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India				Apr. 11-May 22, 1920: Deaths, 7,743. May 30-June 26, 1920: Deaths, 3,864. July 25-Aug. 7, 1920: Deaths, 1,028. Aug. 15-Sept. 4, 1920: Deaths, 733.
Bombay	Apr. 26-June 26	103	45	May 9-15, 1920: Cases, 26, deaths, 11.
Do	June 27-Oct. 2	51	11	
Calcutta	May 2-June 12	101	93	
Do	July 18-Sept. 18	9	8	
Karachi	May 9-June 26	15	12	
Do	June 27-July 10	7	4	
Madras	May 9-June 26	27	15	
Do	June 27-Oct. 23	53	22	
Rangoon	Apr. 25-June 26	35	14	July 1-31, 1920: Cases, 22; deaths, 4.
Do	Aug. 8-Oct. 9	7	2	
Indo-China				Jan. 1-31, 1920: Cases, 410; deaths, 101. Feb. 1-29, 1920: Cases, 625; deaths, 119. Mar. 1-31, 1920: Cases, 782; deaths, 114. Apr. 1-30, 1920: Cases, 312; deaths, 25. May 1-31, 1920; Cases, 428: deaths, 61: June 1-30, 1920: Cases, 318: deaths, 220.
Saigon	May 10-June 13	12	3	
Do	Aug. 3-Sept. 5	1	1	
Italy:				
Catania	July 12-Oct. 31	27		Province, Sept. 18-Oct. 31: 201 cases.
Genoa	May 17-23	12		In Province.
Do	June 14-27	20		
Do	June 28-July 4	3		
Messina	May 10-June 27	7	1	Province, May 10-June 27: Cases, 168: deaths, 27.
Do	June 28-Oct. 3	14	3	Province: Cases, 37; deaths, 3.
Milan	Mar. 1-May 31	3	5	
Naples	May 23-June 20	7	3	
Do	Oct. 18-Nov. 7	8	21	
Palermo	May 11-Oct. 28	402	128	
Trieste	Sept. 25-Oct. 2	16	5	
Turin	June 28-Sept. 12	2		
Japan:				
Kobe	May 9-June 27	10	5	
Do	June 28-July 18	7	2	
Taiwan Island	May 1-June 30	45	16	
Do	June 21-July 20	19	11	
Tokyo	Apr. 21-May 10	5	4	
Java:				
East Java—				
Surabaya	Sept. 5-11	1		
West Java				Apr. 16-June 24, 1920: Cases, 56; deaths, 10. June 25-Sept. 30, 1920: Cases, 126, deaths, 32.
Batavia	Apr. 16-June 17	94	26	
Do	July 9-Sept. 30	15	7	
Jugo-Slavia				Feb. 1-June 23, 1920: Cases, 2,519; deaths, 561.
Liberia:				
Monrovia	Nov. 13			Present.
Madeira:				
Funchal	June 20-26		2	
Do	July 18-Nov. 6	1	5	
Malta	May 1-June 30		3	
Manchuria:				
Mukden	May 2-8			
Mesopotamia:				
Bagdad	July 1-31	1		
Mexico:				
Chihuahua	Nov. 8-21	1	3	
Ciudad Juarez	Aug. 2-8	1		
Guadalajara	May 1-31	1		
Do	July 1-Oct. 31	4	1	
Laredo	July 30	2		
Mazatlan	May 19-25		1	
Salina Cruz	June 1-30	5	3	
Do	Aug. 1-31	1	1	
San Luis Potosi	May 21-June 6		1	
Do	June 28-Nov. 6		13	
Tampico	July 1-31		5	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Newfoundland:				
Broad Cove	Sept. 4-10	1		
Ladle Cove	Sept. 11-17	6		
St. Johns	June 5-11	3		Reported at 2 other localities.
Shoal Harbor	July 10-16	7		July 3-16: Present at 4 localites.
New Zealand:				
Dunedin	Aug. 10-Sept. 20	15		
Persia:				
Teheran	June 6			Present.
Poland				Jan. 1-31, 1920: Cases, 1,895; deaths, 301.
Minsk District	Jan. 1-31	1,052	228	
Porto Rico:				
Caguas	Aug. 9-15	1		
Portugal:				
Lisbon	May 16-June 28		8	
Do	June 27-Oct. 30		33	
Oporto	Oct. 31-Nov. 6	1		
Portuguese East Africa:				
Inhambane	Sept. 12-18	1		
Lourenco Marques	Sept. 12-25	6		June 1-Aug. 31, 1920: Deaths, 1.
Russia:				
Riga	Aug. 1-Oct. 15	4		May, 1920: Cases, 5. June, 1920: Cases, 7.
Vladivostok	Jan. 1-June 30	252	78	
Do	July 1-31	2		
Sierra Leone:				
Baktau	Sept. 1-30	2		
Freetown	do	3		
Spain:				
Barcelona	May 19-June 12		4	
Do	June 18-Nov. 10		23	
Coruna	July 16-Oct. 2		2	
Gijon				July-Sept., 1920: Cases, 17.
Malaga				Aug. 1-Sept. 30, 1920: Deaths, 9.
Orense, Province	Sept. 6			Present.
Valencia	May 23-June 26	15	3	
Do	July 4-Nov. 13	13	3	
Vigo	May 31-June 26		4	
Do	July 18-Nov. 16		11	
Straits Settlements:				
Singapore	May 16-22	1		Received out of date.
Sweden:				
Stockholm	Sept. 19—Oct. 9	4		
Switzerland:				
Geneva	May 9-15	7		
Syria:				
Aleppo	Aug. 29-Sept. 4			In city and in Armenian orphanage.
Tunis:				
Tunis	May 25-June 27	6	5	
Do	June 28-Nov. 7	42	21	
Turkey:				
Constantinople	May 16-June 19	7		
Do	June 20-Oct. 16	13		
Union of South Africa:				
East London	Sept. 19-25	1		
Johannesburg	May 1-31	23		
Do	July 1-Aug. 31	19		
On vessels:				
S. S. Bradford	Nov. 4	1		At Vancouver. From Talara, Peru, via ports in Chile, Mexico, and Peru. Left Talara about 21 days previous to arrival at Vancouver.
S. S. Henry R. Mallory	Oct. 2	1		At Habana from Spanish port. Vessel left Vigo, Spain, Sept. 19.

TYPHUS FEVER.

Algeria:				
Departments—				
Algiers	May 11-Aug. 31	44		
Constantine	May 21-Aug. 31	20		
Oran	May 11-Aug. 31	352		
Austria				Feb. 15-June 26, 1920: Cases, 67.
Vienna	Feb. 15-June 25	65		

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 25 to Dec. 10, 1920—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Belgium:				
Ghent	Sept. 11-Oct. 23	10	1	
Bermuda:				
Hamilton	Oct. 18-23	2		
Bolivia:				
La Paz	May 2-June 30		17	
Do	July 1-Sept. 30	7	21	
Brazil:				
Ceara	Apr. 25-June 12		4	
Do	July 11-24		2	
Bulgaria:				
Sofia	June 20-25	2		
Chile				Mar. 1-June 30, 1920: Cases 1,338; deaths, 244.
Antofagasta	July 5-11			Present.
Caleta Colosa	May 10-16		2	
Concepcion	Mar. 8-June 28	31	39	
Do	June 29-Sept. 20		13	Oct. 13: Cases, 34.
Coquimbo	Aug. 8-Oct. 7	1	1	
Santiago	Mar. 1-June 30	470	86	Sept. 10: Cases, 186.
Valparaiso	May 2-Sept. 24		29	
China:				
Antung	July 12-Oct. 24	73	11	Report week ended July 31, 1920, not received.
Eastern Chinese Railway	Aug. 9-Sept. 28	5		At stations on line.
Harbin				On Eastern Chinese Railroad line. Year 1919: Cases, 301. At other stations on line, 789 cases.
Chosen (Korea):				
Chemulpo	June 1-30	3		
Seoul	Mar. 1-Apr. 30	4	1	
Czechoslovakia				Feb. 1-28, 1920: Cases, 88; deaths, 7.
Leipnik	Feb. 22-28	1		Quarantine station.
Danzig	June 20-26	1		Feb. 27-Mar. 27, 1920: Cases, 16.
Do	July 25-31	1	1	
Egypt:				
Alexandria	May 7-June 24	338	86	
Do	June 25-28	145	63	
Cairo	Apr. 2-June 24	867	370	
Do	July 9-Sept. 2	133	88	
Port Said	Apr. 9-June 24	112	53	
Do	Aug. 20-26	1		
Germany				Feb. 22-Mar. 27, 1920: Cases, 23. Among troops, 4; among persons from Poland, 8. Mar. 28-June 26, 1920: Cases, 96. July 18-Sept. 28, 1920: Cases, 14. Additional cases, June 18-July 10, 16.
Great Britain:				
Belfast	Oct. 24-Nov. 6	4	2	
Dublin	May 23-June 19	3	1	
Do	Oct. 16-Nov. 13	25	1	
Dundee	July 4-10	1		
Glasgow	May 30-June 5		1	
Queenstown	Aug. 1-7	1		
Greece:				
Athens	June 27-July 21		5	
Drama	July 12-18	1		
Patras	June 29-July 4		1	
Piræus	June 29-July 5		1	
Saloniki	Apr. 12-27	384	42	
Do	June 28-Oct. 10	133	57	
Guatemala:				
Guatemala City	Aug. 9-15		1	
Hungary				Jan. 19-May 30, 1920: Cases, 54.
Budapest	Jan. 19-June 20	28		
Italy:				
Catania	July 10-17	3		
Trieste	May 16-22	5		
Do	June 13-Nov. 6	283	18	
Japan:				
Kobe	Aug. 17-23	7		
Nagasaki	May 25-June 27	2	1	
Do	Sept. 13-Oct. 31	9	2	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Jugo-Slavia				Feb. 1-June 23, 1920: Cases, 691; deaths, 92.
Java:				
East Java—				
Surabaya	June 10-16	1		
West Java—				
Batavia	May 28-June 30	5	1	
Mesopotamia:				
Bagdad	Aug. 1-31	1		
Mexico:				
Chihuahua	May 31-June 6		1	
Nogales	Aug. 9-14	2		
San Luis Potosi	June 8-July 8			Present.
Do	July 2-Sept. 13	1	2	Sept. 19: Present. Nov. 14-20: Present.
Poland				Jan. 1-Mar. 31, 1920: Cases, 87,910; deaths, 19,733.
Warsaw				Jan. 1-Feb. 29, 1920: Cases, 911; deaths, 117.
Serbia				Mar. 14-Apr. 10, 1920: Cases, 181; deaths, 23.
Portugal:				
Oporto	Apr. 4-June 24	15	6	
Do	Aug. 1-Nov. 6	10	2	
Russia:				
Riga	June 25-Oct. 23	125		
Simferopol				Jan.-June, 1920: Cases, 3,955; deaths, 500.
Vilna	Sept. 28	35		
Vladivostok	May 1-21	22	2	Jan. 1-Apr. 30, 1920: Cases, 1,264; deaths, 144.
Do	July 1-Aug. 31	36	4	
Spain:				
Barcelona	July 9-15		1	
Madrid	June 1-30		1	
Switzerland:				
Geneva	June 28-July 4	1		
Tunis:				
Tunis	May 24-June 27	36	18	
Do	July 6-Aug. 31	1	1	
Turkey:				
Constantinople	May 16-June 12	27		
Do	June 19-Nov. 6	32	1	
Union of South Africa:				
Port Elizabeth	Sept. 27-Oct. 2	1		
Venezuela:				
Maracaibo	July 21-27		1	

YELLOW FEVER.

Brazil:				
Bahia	May 23-June 19	1		
Colombia:				
Buenaventura	June 3	1	1	
Guatemala				Oct. 25, 1920: Present.
Los Amates	Aug. 5-Sept. 1	10	3	Aug. 17: Present at several localities.
Quirigua	Aug. 9-15			Present.
Virginia	Sept. 10	1		Station on railway from Puerto Barrios to Guatemala City, 45 miles from Puerto Barrios.
Mexico:				
Culiacan	Oct. 16			Present.
Empalme	Oct. 12	1	1	
Guaymas	do		1	Previously reported, 2 deaths; later information shows 1 death.
Mazatlan	Oct. 13	1	1	
Progreso	July 30	1		
Do	Aug. 4-18	4	2	July 30-Aug. 18, 1920: Cases, 5; deaths, 3.
Puerto Mexico	Aug. 24-27	1	1	Case arrived Aug. 23, on S. S. Melchor Ocampo from Progreso.
San Blas	Sept. 13	1		
Tampico	Sept. 17	1		Previously reported P. H. R., Sept. 10, 1920.
Do	Sept. 21-Nov. 4	3	2	
Tuxpam	Sept. 1		2	Aug. 26-Oct. 27, 1920: Cases, 112; deaths, 59.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from June 26 to Dec. 10, 1920—Continued.

YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Vera Cruz	June 22		2	
Do	July 19-Nov. 28	105	82	
Yucatan State—				
Campeche	Oct. 13	1	1	In sailor from S. S. Yumuri. The vessel left Vera Cruz Oct. 1 for Campeche and New Orleans.
Hocoba	Sept. 8	8		In interior.
Hunuema	Sept. 8-Oct. 11	2	1	Do.
Izmal	Oct. 10-16		1	
Merida	Nov. 5	1		From Hunuema.
Sotuta	Sept. 8	1	1	In interior.
Peru				Mar. 1-31, 1920: Cases, 228. Apr. 1-20, 1920: Cases, 64.
Callao	Apr. 1-30	1		At quarantine station. From S. S. Huallaga.
Catacaos	Mar. 1-31	14		
Do	Apr. 1-30	2		
La Huaca	Mar. 1-31	9		
Do	Apr. 1-30	5		
Morropon	do	37		
Munuella	Mar. 1-31	12		
Paita	do	81		
Do	Apr. 1-30	14		
Piura	Mar. 1-31	1		
Do	Apr. 1-30	4		
Salitral	Mar. 1-31	2		
Sullana	do	9		
Do	Apr. 1-30	1		
Salvador				Sept. 12-19, 1920: 1 case, Aug. 22-Oct. 11, 1920: Cases, 3; deaths, 1.
Armenia	June 20-26	1	1	
San Salvador	Aug. 1-21	6	2	Fatal cases were in Europeans.
Sonsonate	May 22-June 24	49	17	
On vessels:				
S. S. Curacao	Nov. 16	1	1	At San Francisco, Calif. From Mexican ports, 6 days out from Mazatlan.
S. S. Haraldshaug	Sept. 28	1		At Pensacola, Fla. From Puerto Barrios, Tampico, and Vera Cruz.
S. S. Soestdijk	Sept. 11	1	1	At Quarantine, La.
S. S. Yumuri	Oct. 13	1	1	At Campeche. Vessel left Vera Cruz Oct. 1. 1920.

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